

INDEX TO VOLUME 4

INDEX OF ORIGINAL ARTICLES

- Abdominal wall, desmoma of, in children, 1052-1065
 Abortion, therapeutic, in presence of malignant melanoma, 332
ABRAMS, RUTH D., *jt. au.*, 1159-1170
 Abtropfung, of nevi, 11
 Acid(s), adenylic, effect of, on 2,6-diaminopurine, 187, 194
 aminobenzoic, N-carboxy-, in mouse leukemias, 360
 aspartic, 4-aminopteroyle. *See* Aminofanol
 deoxyribose nucleic. *See* Nucleic acid, deoxyribonucleic
 disulfuric, 4,4'-diaminostilbene-2,2', in mouse leukemias, 361
 folic. *See* Folic acid
 glutamic, 4-amino-9,10-dimethylpteroyl. *See* Adenopterin
 4-amino-N⁶-methylpteroyl. *See* Aminopterin
 4-amino-9-methylpteroyl. *See* Aninopterin
 4-aminopteroyle. *See* Aminopterin
 iodoacetic, in mouse leukemias, 361
 lymphokentic, in leukemia, acute, remissions of, 46
 malonic, in mouse leukemias, 361
 myelokentic, in leukemia, acute, remissions of, 46
 ribonucleic. *See* Nucleic acid, ribo-
 Nucleic acid, ribosugars, 4-aminopteroyle. *See* Aminopterin
ACKERMAN, LAUREN V., and TAYLOR, FREDERICK H.: Neurogenous tumors within the thorax. A clinicopathological evaluation of forty-eight cases, 669-691
jt. au., 919-929
 Acriflavine, in mouse leukemias, 361
 ACTH, in carcinomas, advanced, of digestive tract, 984-987
 systematic effects, 986
 granulomatous type, of thymus, 1198
 in desmoma, 1058
 in leukemia, 554, 565
 acute, metabolism of, 511
 Adamantinoma, histogenesis of, 340
 of mouth, in Bantu, 1226
 Adenine, effect on cytosine, 195
 as inhibitor of 2,6-diaminopurine, 187, 190
 Adenocarcinoma, of adrenal, metastatic, to rib, 123, 126
 in Bantu, 1227
 of cervix, in Bantu, 1226
 histology of, 1067
 metastatic to ribs, 124
 treatment of, 1066-1071
EO 771, inhibition of, by Russian Far East encephalitis virus, 375, 378
 of esophagus, in Bantu, 1226
 of large bowel, in Bantu, 1226
 metastatic, of thyroid, testosterone in, 1176-1192
 mucoid carcinoma as form of, 597
 of ovary, in Bantu, 1226
 of pancreas, in Bantu, 1226
 preinvasive, of appendix, 261-264
 of rectum, HN2 for, intra-arterial, 1352
 Adenofibroma, familial breast cancer and, 517
 Adenoma, benign, of thyroid, in childhood, 891
 bronchial, transplantation of, heterologous, 1016
 in childhood, 891
 of salivary glands, in Bantu, 1226
 of thyroid, 1179
 cytosarcoma phyllodes and, 1288
 Adenomyoma, of intestine, small, in childhood, 891
 Adenomyosis of uterus, cytosarcoma phyllodes and, 1288
 Adenopterin, dosage of, 552
 in leukemia, results with, 554
 Adenosine, effect of, on cytosine, 195
 on 2,6-diaminopurine, 187, 193
 Adrenal, adenocarcinoma of, metastatic, to rib, 123, 126
 cortex of, carcinoma of, in childhood, 896
 neuroblastoma of, congenital, anomalies associated with, 784-788
 Age, and incidence, of fibrosarcoma, transplanted, of rat, 1259-1262
 medical-care habits and, 223
 of onset, in cancer, hereditary, of breast, 746
 Aleurin, in mouse leukemias, 361
 Allophanate, ethyl, in mouse leukemias, 360, 361
 Amenorrhea, arrhenoblastoma and, 61
 Amethopterin, dosage of, 552
 effect of, on antileukemia, nucleic acid reversal of, 358
 on *Escherichia coli*, 398-400
 in leukemia, results with, 554
 toxicity of, citrovorum-factor inhibition of, 555, 620
 with urethane, in leukemia, plasma-cell, 1043-1051
 Aminoacid, dosage of, 552
 in leukemia, results with, 554
 4-Amino-9, 10-dimethylpteroylglutamic acid. *See* Adenopterin
 4-Amino-5-imidazolecarboxamide, in *Escherichia coli*, produced by amethopterin, 399
 4-Amino-N⁶-methylpteroylglutamic acid. *See* Aninopterin
 4-Amino-9-methylpteroylglutamic acid. *See* Aminopterin
 Aminopterin, dosage of, 552
 effect of, on animals, various, 550
 antileukemic, nucleic acid reversal of, 358
 on *Escherichia coli*, 398-400
 folic acid inhibition of, 551
 for leukemia, acute, metabolism in, 504, 511
 of mouse, 361
 results with, 554
 toxicity of, citrovorum-factor inhibition of, 551, 555, 619-625
 time factors in, 621
 folic acid inhibition of, 619-625
 time factors in, 621
 4-Aminopteroyleaspartic acid. *See* Aminofanol
 4-Aminopteroyleglutamic acid. *See* Aminopterin
 4-Aminopteroyleglutamic acid. *See* Aminopterin
 Aminopteroyletriglutamic acid. *See* Aminopterin
 Aminopteroterpen, dosage of, 552
 4-Aminopteroyletriglutamic acid. *See* Aminopterin
 Ampulla of Vater, cancer of, exfoliative cytology of, 290
 Amylamine, N,N-bis(2-chloroethyl)-n-, in mouse leukemias, 356
ANDERSEN, DOROTHY H.: Tumors of infancy and childhood. I. A survey of those seen in the pathology laboratory of the Babies Hospital during the years 1935-1950, 890-906
 Androgen. *See also* Hormones; specific names of
 effect of, on carcinoma, primary, operable, of breast, 138
ANDRUS, S. B.; MEISSNER, G. F., and WHORTON, C. M.: Heterologous transplantation of human neoplasms including lymphomas, 1015-1024
 Anemia, in leukemia, acute, 48
 Anesthesia, in neck dissection, 458
 sodium pentothal, in surgery, of mouth and neck, 100
 Angiosarcoma, in Bantu, 1227
 Kaposi, in Bantu, 1227
 of liver, in childhood, 896
ANGLEM, THOMAS J., *jt. au.*, 1176-1192
 Animals, food-producing, tumors of, 1113-1124
 research facilities in, 1121
 Aninopterin, dosage of, 552
 in leukemia, results with, 554
 Anlage (n), retinal, tumor of, 78-85; 86-91
 Antibodies, heterophile, in neoplastic diseases, 1036-1042
 effect of prior liver extract, 1040
 Antichymotrypsin, in chemotherapy evaluation, 177-183
 Antigens, heterophile, in neoplastic diseases, 1036-1042
 Antirennin, in chemotherapy evaluation, 177-183
 Appendix, adenocarcinoma of, preinvasive, 261-264
 Appendix, cont'd
 lymphosarcoma of, 994-998
 pathological findings in, 996
 primary, 994-998
 Arrhenoblastoma, excision of, pregnancy after, 73
 heredity in, absence of, 67
 histogenesis of, 61
 incidence of, 62
 malignancy of, 60-77
 criteria of, 62
 morphology of, 61
 pregnancy and, incidence of, 67
 sequential order in, 70
 signs of, 61
 sterility and, incidence of, 67
 surgery for, indications in, 65
ASHBEL, RIVKA, *jt. au.*, 579-596
 Astrocytoma, in Bantu, 1227
AUCHINCLOSS, HUGH JR., *jt. au.*, 762-783
AUERBACH, OSCAR; FRIEDMAN, MILTON; WEISS, LEO, and AMORY, HAROLD I.: Extraskelatal osteogenic sarcoma arising in irradiated tissue, 1095-1106
AYRE, W. BURTON; with the technical assistance of: MILLAR, B.: Alkaline phosphatase in benign and malignant cells in the vaginal smear, 159-167
AVRES, W. W., *jt. au.*, 1341-1363
 8-Azaguanine, effect of, on *Escherichia coli*, 398-400
 Azobenzene, 3'-methyl-4-dimethylamino-, effect on P³² uptake by liver, of rat, 410-415
BACON, HARRY E., *jt. au.*, 597-609
BAGGENSTOSS, ARCHIE H., *jt. au.*, 233-241
BARBERIO, J. R.; KLOPP, C. T.; AYRES, W. W., and GROSS, H. A.: Effects of intra-arterial administration of nitrogen mustard, 1341-1363
BARIGOZZI, CLAUDIO, and DELLEPIANE, GIUSEPPE: New perspectives in cancer cytology, 154-158
BECKER, LILLIAN M., *jt. au.*, 1009-1014
BELL, MARTELLA, *jt. au.*, 357-359; 360-362
BENGSTON, JOHN S., *jt. au.*, 1113-1124
BENNETT, LEONARD L., JR., *jt. au.*, 1025-1027
 1,2-Benzanthracene, 9,10-dimethyl-, leukemias induced by, in mice, 388
 tumors induced by, in mice, 388
 Benzene, 2-nitro-1,4-dimethyl-, in mouse leukemias, 361
 Benzenesulfonamide, p-carboxy-p-aminobenzenesulfonamide, in mouse leukemias, 360
 Benzopyrene, tumors induced by, in mice, 388
 Benzylamine, N,N-bis(2-chloroethyl)-p-chloro-, in mouse leukemias, 356
BERGER, RUTH E., *jt. au.*, 186-197
BERGMANN, MARTIN; ACKERMAN, LAUREN V., and KEMLER, R. LEONARD: Carcinosarcoma of the lung. Review of the literature and report of two cases treated by pneumonectomy, 919-929
BERNARD, LOUIS J., *jt. au.*, 634-636
BIERMAN, HOWARD R.; McCLELLAND, JAMES N., and GALLOWAY, DAVID W.: Knowledge about cancer in a group of practicing physicians, 913-915
jt. au., 570-578
BIESELE, JOHN J.; BERGER, RUTH E.; WILSON, ANNE YATES; HITCHINGS, GEORGE H., and ELION, GERTRUDE B.: Studies on 2,6-diaminopurine and related substances in cultures of embryonic and sarcomatous rodent tissues, 186-197
 Bile ducts, cancer of, exfoliative cytology of, 290
 carcinoma of, in childhood, 896
 common, in carcinoma, of pancreas, 237
 transplantation of, heterologous, 1016
Bilharzia, cancer of bladder and, in Bantu, 1230
BINKLEY, J. SAMUEL: Telescopic pancreaticojejunostomy, 226-232
 Biopsy, of cervix, instrument for, 1367-1371
BIRD, ROBERT M.; CLEMENTS, JOHN A., and BECKER, LILLIAN M.: The metabolism of leukocytes taken from peripheral blood of leukemic patients, 1009-1014

- Bis(2-chloroethyl)amine, in mouse leukemias, 354
- 1,1-Bis(chloromethyl)-N,N,N-tris-(2-chloroethyl)amine, in mouse leukemias, 354, 356
- Bis(2-cyanoethyl)amine, in mouse leukemias, 356
- Bladder cancer of, in Bantu, 1230
untreated, survival with, 4
- carcinoma of, in Bantu, 1226
folic acid antagonists for, results with, 564
- cyst of, in childhood, 891
- effect of HN2 on, after intra-arterial injection, 1349
- Bleeding, tendency, in leukemia, acute, 48
- time, in leukemia, acute, 49
- Blood, leukemic reaction, in carcinoma, primary, of lung, 930
- peripheral, azurophilic crystals in, intracytoplasmic, in leukemia, plasma-cell, 1047
- Blood groups, in leukemia, acute, 49
- BLOOMER, WILLIAM E., and LINDSKOG, GUSTAF E.: Bronchogenic carcinoma. A report comparing three consecutive series of one hundred cases each, 1171-1175
- Bone, cyst of, in childhood, 891
- lesions of, surgery of, restitutive, 823-834
- in leukemia, acute, 50
- leukemic reactions and, in carcinoma, of lung, 933
- metastases to, in carcinoma, of thyroid, 1177
- In, in, 1181
- tumors of, in childhood, 896
- benign, 891
- giant-cell, 891
- glomus, histogenesis of, 340
- métastatic, hematogenous, resection of thoracic wall for, 120-130
- primary, classification of, 335-341
- retinal anlage, 78-85; 86-91
- Bone marrow, azurophilic crystals in, intracytoplasmic, in leukemia, plasma-cell, 1047
- in leukemia, acute, 49
- leukemic reactions and, in carcinoma, of lung, 933
- BOOSHER, ROBERT J., and PACK, GEORGE T.: Desmomas of the abdominal wall in children, 1052-1065
- Bowel, large. See also specific segments of carcinoma of, mucoid, 597-609
- carcinoma of, squamous, in Bantu, 1226
- Brain, effect of ultrasonic vibrations on, 342-344
- BRANCA, A. W., *et al.*, 1176-1192
- Branchial arches and clefts, mixed tumors of, in childhood, 891, 892
- BRANDT, EUGENIA L., and GRIFFIN, A. CLARK: Reduction of toxicity of nitrogen mustards by cysteine, 1030-1035
- et al.*, 410-415
- Breast, cancer of, adherent to chest wall, chest-wall excision for, radical, 1278 advanced, sodium estrone sulfate uptake of, 537-548
- bilateral, 747
- breast feeding and, 747
- chest-wall excision in, radical, 1263-1285
- exfoliative cytology in, 150-153
- heredity in, 515-520; 745-748
- hormones for, 319-323
- in human, transmission of, 630
- incidence of, in second breast, 7
- metastases of, to vertebrae, 610
- recurrent, surgery for, radical, 1264
- simulated by metastases of prostatic carcinoma, 303-311
- untreated, survival with, 3
- carcinoma of, amethopterin for, results with, 563
- antigens in, heterophile, 1040
- in Bantu, 1230
- electron-microscope study of, 171
- hormone-treated, pathological findings in, 138
- lummary-duct ectasia and, 749-761
- diagnosis of, differential, 759
- metabolism in, 507
- in mice, stilbamidine (and 2-hydroxy-) deposition and, 1247
- primary, operable, hormone effects of, 136-140
- transplantation of, heterologous, 1016
- chondrosarcoma of, transplantation of, heterologous, 1016
- Breast, *cont'd*
- chronic cystic disease of, oophorectomy, bilateral, and, 781
- cystosarcoma phylloides of, clinicopathological study of, 1286-1332
- fibrocystic disease of, chronic, in childhood, 891
- mammary-duct ectasia of, 749-761
- "normal," chronic cystic disease of, incidence of, 762-783
- tumors of, in Bantu, 1227
- Bronchus, adenoma of, in childhood, 891
- carcinoma in situ of, 141-146
- findings in, cytological, 145
- histological, 144
- BROWN, REYNOLD, *et al.*, 1193-1209
- BUCKLEY, JOHN J., *et al.*, 367-374
- BUCKLEY, S. M., BUCKLEY, JOHN J., and SNIPES, A. E.: The effect of St. Louis encephalitis virus on transplantable Crocker mouse sarcoma 180, 160-174
- BUDD, JOHN W., *et al.*, 1367-1371
- BURCHENAL, J. H.; BURCHENAL, J. R., and JOHNSTON, S. F.: Chemotherapy of leukemia. III. Further studies on the effect of nitrogen mustards and related compounds on transplanted mouse leukemia, 353-356
- KARNOFSKY, DAVID A.; KINGSLEY-PILLERS, ELIZABETH M.; SOUTHAM, CHESTER M.; MYERS, W. P.; LAIRD; ESCHER, GEORGE C.; CRAVEN, LLOYD F.; DARGREN, HAROLD W., and RHODES, CORNELIUS P.: The effects of the folic acid antagonists and 2,6-diaminopurine on neoplastic disease; with special reference to acute leukemia, 549-569
- et al.*, 39-59; 1036-1042
- BURCHENAL, J. R., *et al.*, 353-356
- BURKE, F. E., *et al.*, 312-318
- Butanetratetramine, octakis(2-chloroethyl)-1, 2,3,4-, in mouse leukemias, 354
- Butylamine, *N,N*-bis(2-chloroethyl)-*N*-, in mouse leukemias, 356
- N,N*-bis(2-chloroethyl)-*tert*-, in mouse leukemias, 356
- C¹⁴, diethylstilbestrol labeled with, metabolism of, 296
- glycine labeled with, tissue uptake with, 383-386
- incorporation into desoxyriboadenucleic acid, roentgen-ray inhibition of, 363-366
- CAHAN, WILLIAM G., *et al.*, 441-499
- CALLAHAN, W. P., *et al.*, 726-736
- CAMPBELL, J. H., and CUMMINS, SAM D.: Metastases, simulating mammary cancer, in prostatic carcinoma under estrogenic therapy, 303-311
- Cancer. See also sites of, e.g., Breast, Stomach, etc.
- advanced, glycoproteins of, in serum, 975
- of breast, familial distribution of, 515-520
- diagnosis of, by diiodotyrosine uptake, 352
- erogenous, 896
- erythrocytes and, phosphate loss of, 184-185
- foci of, origin of, hypothesis on, 916-918
- frequency of, relative, 416-422
- histogenesis of, hypothesis of, 626
- history of, 907-912
- human, virus-like bodies in, electron-microscope study of, 168-176
- knowledge of, in practicing physicians, 913-915
- malignancy of, age and, 5
- metabolism in, 500-514
- metastatic, cervical, neck dissection in, 441-499
- multiple, incidence of, at necropsy, 7
- mutation theory of, critical-size theory and, 918
- natural history of, 5
- onset of, date of, determination of, 2
- patient, medical-care habits of, 221-225
- psychological mechanisms in, 1159-1170
- recrudescence of, long-term, 6
- regression of, spontaneous, 5
- factors in, 6
- untreated, survival with, 1-8
- Cancer index, 1234
- Carbamate, isoamyl, in mouse leukemias, 360
- isobutyl in mouse leukemias, 360
- 1-methylbutyl-, in mouse leukemias, 360
- Carbonyl groups, latent, active, histochemical demonstration of, in nervous tissue, 579-596
- Carcinoid, of ileum, in Bantu, 1226
- Carcinoma, acinar, of pancreas, course of, factors in, 233
- anaplastic, in Bantu, 1227
- of animals, food-producing, 1114, 1117
- bronchiolarogenic, origin of, multiple, 277-285
- bronchogenic. See Lung, carcinoma of and cirrhosis, portal, 131-135
- ductal, of pancreas, course of, factors in, 233
- ectodermal, in childhood, 896
- embryonal, differentiation of, later, 265
- endodermal, in childhood, 896
- EO 71, effect of, aminopterin on, 551
- epidermoid, of cervix, metastatic to ribs, 123
- Hürthle-cell, of thyroid, 952-956
- intrapeithelial. See also Carcinoma in situ
- of cervix, cells of, alkaline phosphatase of, 160
- histogenesis of, 1210-1223, 1219
- incidence of, 1210-1223; 1220
- pathological findings in, 1212, 1218
- of kidney, in Bantu, 1226
- large-cell, of pancreas, course of, factors in, 233
- of liver, in Bantu, 1226
- of lung, in Bantu, 1227
- mammary, 755, 298
- of mouse, Pu turnover in erythrocytes of, 1028
- transmission of, "vertical," 626-633
- and mesenchymal sarcoma, of uterus, 803-816
- metastatic, metabolism in, 505
- mucoid, pathogenesis of, 602
- mucoid, of rectum, 597-609
- renal, ¹³¹I studies on, postmortem findings in, 936, 939
- in situ, of bronchus, 141-146
- exfoliative cytology of, 145
- cytology of, 255-260
- histology of, criteria of, 146
- of skin, in Bantu, 1226
- squamous-cell, of cervix, cytology of, 255-260
- of stomach, exfoliative-cytology detection of, 149
- small-cell, of pancreas, course of, factors in, 233
- squamous, in Bantu, 1227
- of stomach, 717-725
- of sweat glands, 521-536
- transplantation of, heterologous, 1016
- Walker rat, 610
- V2, 613
- Carcinosarcoma, collision, 919
- of lung, 919-929
- pathological findings in, 923, 925
- pathogenesis of, 928
- rat, Walker, 256, 610
- transplantation studies of, findings in, 928
- of uterus, 803-816
- pathological findings in, 805, 806, 810, 813
- CAROTHERS, E. L., *et al.*, 634-636
- Catachol, in mouse leukemias, 361
- Cattle, tumor of, 1115
- economic loss from, annual, 1121
- Cell, in carcinoma in situ, squamous-cell, of cervix, 257
- of chronic cystic disease, of breast, 780
- electron-microscope study of, 169-176
- exfoliated, in cancer, of stomach, 291
- growth of, effect of, folic acid antagonists on, 550
- Langerhans, nevi and, 10
- Merkel, nevi and, 12
- of mucosa, of intestine, irradiation effect on, 1250-1258
- nitrogen-mustard effects on, 1250-1258
- of myoblastoma, granular-cell, in tissue culture, 857
- plasma, histogenesis of, 396
- of vaginal smear, alkaline phosphatase of, 159-167
- Cervix, adenocarcinoma of, 1066-1072
- treatment of, 1069
- biopsy of, instrument for, 1367-1371
- cancer of, untreated, survival with, 3
- carcinoma of, in Bantu, 1230
- epidermoid, metastatic, to ribs and sternum, 123, 124
- intrapeithelial, cells of, alkaline phosphate of, 160

INDEX OF ORIGINAL ARTICLES

- Cervix, carcinoma of, intraepithelial, *cont'd*
histogenesis of, 1210-1223; 1219
incidence of, 1210-1223; 1220
pregnancy and, 1220
site of, 1220
invasive cells of, alkaline phosphatase
of, 160
squamous, in Bantu, 1226
squamous-cell, complications of, 252
treatment of, results of, 251-254
metaplasia of, histogenesis of, 1210-1223
incidence of, 1210-1223
- CHAPMAN, JUANITA B., *jt. au.*, 357-359; 360-
362
- CHEATLE, SIR GEORGE LENTHAL, Frontispiece, facing p. 221
- Chemotherapy. *See also* specific names of
chemicals
in cancer, mechanism of action of, 619-625
leukemia, nitrogen mustards in, 353-
359
after neck dissection, 473
Chick embryo, effect of, aminopterin on, 550
Children, tumors of. *See* names of tumors
Chloroleukemia 1394, chemotherapy of, 360
Ak 1394, nitrogen-mustard effect on, 353-
356
- Chondroblastoma, benign, of bone, histogen-
esis of, 337
- Chondroma, in childhood, 891
- Chondrosarcoma, of breast, transplantation
of, heterologous, 1016
of femur, 823, 826, 831, 832
- Chordoma, of bone, histogenesis of, 340
- Chorioepithelioma, in Bantu, 1227
morphogenesis of, 265
regression of, spontaneous, 6
- Chronic cystic disease, of breast, "normal,"
incidence of, 762-783
- Cirrhosis, portal, and carcinoma, 131-135
sites of, 133
as precancerous lesion, 134
- Citrovorum factor, inhibition of toxicity
of, aminopterin by, 551, 555, 619-625
time factors in, 621
- CLARKE, B. EARL, and PARSONS, HERBERT.: An embryological tumor of retinal
anlage involving the skull, 78-85
- CLARKE, ROGER G., and SIMONDS, JAMES
P.: Primary lymphosarcoma of the
appendix, 994-998
- CLEMENTS, JOHN A., *jt. au.*, 1009-1014
- Clotting time, in leukemia, acute, 49
- Cobalt, radioactive, in cancer, inoperable,
of head and neck, 1333-1336
plus roentgenotherapy, in carcinoma,
squamous-cell, of cervix, results
of, 251-254
- COBB, STANLEY, *jt. au.*, 1159-1170
- Colchicine, effect of, on *Escherichia coli*,
398-400
in mouse leukemias, 361
- COLLINS, VINCENT P.; GELLHORN, ALFRED,
and TRIMBLE, JAMES R.: The coincidence
of cryptococciosis and disease of the
reticulo-endothelial and lymphatic systems, 883-889
- Colon, adenocarcinoma of, petroleum-prod-
ucts-induced, in mice, 1243
cancer of, lymph-node dissection in, ab-
dominopelvic, 1364-1366
carcinoma of, transplantation of, heterolo-
gous, 1016
polyp of, in childhood, 891
- COMAN, DALE REX, and deLONG, ROBERT
P.: The role of the vertebral venous
system in the metastasis of cancer to
the spinal column; experiments
with tumor-cell suspensions in rats
and rabbits, 610-618
- CONFORTI, MANDRED W., *jt. au.*, 233-241
- Conjunctival carcinoma of, squamous, in
Bantu, 1227
- COOLEY, STEPHEN G. E., *jt. au.*, 521-536
- COOPER, WILLIAM A., *jt. au.*, 286-295
- CORSACIEN, J. A., *jt. au.*, 1066-1072
- Cortisone, in carcinoma, advanced, of di-
gestive tract, 984-987
systemic effects, 986
in leukemia, 554, 565
- CRAIG, BENJAMIN R., *jt. au.*, 1250-1258
- Cranium, blood routes of, anatomy of, 246
- CRAYER, LLOYD F., *jt. au.*, 39-59; 549-569;
999-1008
- Critical-size concept, in origin of cancer, 916
- Cratonoside, effect on, 2,6-diaminopurine,
187, 193
inhibitors of, 195
- Cryptococciosis, lymphatic disease and, 883-
889
reticulo-endothelial disease and, 883-889
- Cryptococcus neoformans*, lymphatic and
reticulo-endothelial disease and, 883
var. *innocuus*, 883
- CUMMINS, SAM D., *jt. au.*, 303-311
- CUNNINGHAM, LEW, *jt. au.*, 410-415
- Curet, spiral, for biopsy, of cervix, 1367-
1371
- Cyst(s), blue-domed, of breast, 776
in childhood, types of, 891
- Cystadenocarcinoma, of pancreas, 234
- Cysteine, in reduction of toxicity of nitrogen
mustards, 1030-1035
- Cystosarcoma phyllodes, of breast, 1286-
1332
benign, pathological findings in, 1293
of borderline malignancy, pathological
findings in, 1321
diagnosis of, criteria of, 1328
differential, 1290
etiology of, 1291, 1331
evolution of, malignant, 1329
fibroadenoma and, 1323
growth behavior of, 1288, 1331
malignant, pathological findings in,
1295, 1316
metastases of, 1326
pathogenesis of, 1329
pathological findings in, 1292
prognosis of, 1331
symptoms of, 1289
treatment of, results of, 1323
- sarcoma of breast and, 1330
- Cytocrinia, definition of, 10
- CYTIOLOGICAL DIAGNOSIS IN THE 1800's.
Frontispiece, facing p. 1
- Cytology, of carcinoma, intraepithelial, of
cervix, 1218
- in diagnosis, A and B nuclei in, 154-158
accuracy of, 157
- of epithelium, squamous, of portio vaginalis,
1217
- exfoliative, A and B nuclei in, 155
accuracy of diagnosis by, 157
- in cancer, of ampulla of Vater, 290
- of bile ducts, 290
- of breast, with Paget's disease, 150-153
- of duodenum, 290
- of esophagus, 290
- of gallbladder, 290
- of pancreas, 290
- of stomach, 286-295
- in carcinoma, primary, of lung, 665
- in situ, of bronchus, 145
- squamous-cell, of cervix, 255-260
- of stomach diagnosed by, 149
- of stomach, result of, 149
- in carcinosarcoma, of lung, 927
- cells in, phosphatase of, alkaline, 159-
167
- of cervix, 1213
- papain for cell concentration in, 147-
149
- technique of, evaluation of, 290
- of hypernephroma, true kidney, 791
- of metaplasia, of cervix, 1217
- of sarcoma, St. Louis encephalitis
virus effect on, 367-374
- Cytoplasm, of liver, Pt^4 uptake by, effect
of 3'-methyl-4-dimethylaminoazo-
benzene on, 410-417
- of nevi, adult, 23
- DARGEON, HAROLD W., *jt. au.*, 39-59; 549-
569
- DEDDISH, MICHAEL R.: Abdominopelvic
lymph-node dissection in cancer of
the rectum and distal colon, 1364-
1366
- Delay, factors in, of patients, 1161
in medical care, 221-225
- DELLEPIANE, GIUSEPPE, *jt. au.*, 154-158
- DEL VALLE, BERNARDO, *jt. au.*, 441-449
- Dentigerous cyst, in childhood, 891
- Dermatofibrosarcoma protuberans, meta-
stasizing, 1083-1086
- Dermoid cyst, of skin, in childhood, 891, 892
pathological findings in, 1084
- Desmoid, in Bantu, 1227
- Desmoma, of abdominal wall, in children,
1052-1065
- Desoxypyridoxine hydrochloride, in mouse
leukemias, 361
- 2,6-Diaminopurine, administration of,
method of, 552
- doseage of, 552
- effect of, on *Escherichia coli*, 398-400
in tissue culture, on embryonic tissue,
186-197
on rodent sarcoma, 186-197
- inhibitors of, 186
- in leukemia, results with, 554, 564
- DIAMOND, HENRY D., and CRAVER, LLOYD
F.: Radioactive phosphorus. II.
In the treatment of myeloid leukemia,
999-1008
- Dibenanthracene, leukemias induced by,
in mice, 388
tumors induced by, in mice, 388
- Diethyl carbonate, in mouse leukemias, 360
sulfate, in mouse leukemias, 361
- Diiodotyrosine, uptake of, 345-352
- Dimethyl sulfate, in mouse leukemias, 361
- Drosophila melanogaster*, effect of, aminop-
terin on, 550
- DUFFY, BENEDICT J., JR., *jt. au.*, 936-951;
952-956
- Duodenum, cancer of, exfoliative cytology
of, 290
- hypercholesterolemia and xanthoma-
tosis complicating, 737-744
pathological findings in, 739
- Dysgerminoma, of ovary, in Bantu, 1226
- Dyskeratosis, superficial, in exfoliative cytology,
of carcinoma, squamous-cell, of
cervix, 259
- Ear, cancer of, in brothers, familial breast
cancer and, 517
- external, polyp of, in childhood, 891
- Economic status, medical-care habits and,
223
- EGERTON, MILTON T., JR.: Replacement of
lining to oral cavity following sur-
gery, 110-119
- Education, medical-care habits and, 223
- EDWARDS, PRADISTH C.; SKIPPER, HOWARD
E., and JOHNSON, RACHEL P.: Effect of
various antileukemic compounds on
the production of a diazotizable
amine (probably 4-amino-5-imida-
zolecarboxamide) by *Escherichia coli*,
398-400
- ERLICH, HARRY, *jt. au.*, 441-449
- EISEN, MILTON J., and TAFT, RICHARD H.:
Cytological diagnosis of mammary
cancer associated with incipient
Paget's disease of the nipple, 150-153
- Electrolyte balance, in leukemia, acute, 511
- Electron microscope, human milk studied
by, 631
- virus-like cell components as seen by, 168-
176
- ELION, GERTRUDE B., *jt. au.*, 186-197
- Enchondroma, of bone, histogenesis of, 337
of 2d metacarpal, surgery for, 835-838
- Endometrium, carcinoma of, cirrhosis, por-
tal, and, 132
- tumors of, malignant, vs. hyperplasia,
A and B nuclei in, 156
- Enterogenous cyst, in childhood, 891
- Enzymes, inhibitors of, in chemotherapy
evaluation, 177-183
- Ependymoma, transplantation of, heterolo-
gous, 1016
- Epithelioma, basal-cell, metastasizing, of
skin, 866-878
diagnosis of, criteria for, 867
- pathological findings in, 869, 873
- benign, of skin, in childhood, 891
- Epithelium, squamous, of portio vaginalis,
cytology of, 1217
- ERICKSON, CYRUS C., *jt. au.*, 1210-1223
- Erythrocytes, carbonyl groups in, 587
- mouse, Pt^4 turnover in, 1028
- phosphate loss of, cancer and, 184-185
- Erythropoiesis, in leukemia, acute, 49
- ESCHER, GEORGE C., *jt. au.*, 136-140; 549-
569
- Esophagus, cancer of, in Bantu, 1229
exfoliative cytology in, 290
- untreated, survival with, 3
- carcinoma of, advanced, cortisone for, 984
- metabolism in, 508
- squamous, in Bantu, 1226
- transplantation of, heterologous, 1016
- polyp of, benign, large, 708-716
- Estrogen(s), in cancer of prostate, cancer of
male breast and, 303-311
- effect of, on alkaline phosphatase, of cells,
in vaginal smears, 159
- on carcinoma, primary, operable, of
breast, 137
- uptake of, by cancer, of breast, 537-548
- Estrone sulfate, uptake of, in cancer, of
breast, 537
- Ethylamine, 2-chloro-, in mouse leukemias,
356
- N,N*-bis(*o*-chlorobenzyl)-2-chloro-, in
mouse leukemias, 356
- N*-(2-chloroethyl)-*N*-(3-chloro-*n*-propyl)-,
in mouse leukemias, 354

- Ethylamine, *cont'd*
- N,N*-dibenzyl-2-chloro-, in mouse leukemias, 356
 - N,N*-dibenzyl-2-chloro-2-phenyl-, in mouse leukemias, 356
 - N,N*-dimethyl-2-chloro-2-phenyl-, in mouse leukemias, 356
 - N,N*-bis(*p*-isopropylbenzyl)-2-chloro-, in mouse leukemias, 356
 - N,N*-bis(*p*-methoxybenzyl)-2-chloro-, in mouse leukemias, 356
 - Ethylbis(2-chloroethyl)amine oxide-hydrochloride, in mouse leukemias, 1354
 - Ethylenediamine(*N*-(2-bromoethyl)-*N*-aspiridinium) dibromide, in mouse leukemias, 356
 - Ethylenediamine, *N,N*-bis(2-chloroethyl)-*N,N*-diethyl-, in mouse leukemias, 354
 - α,β -diphenyl-, in mouse leukemias, 361
 - Ewing's sarcoma, bone formation in, reactive, 839-845
pathological findings in, 841
histogenesis of, 339
 - Ewing's tumor, in childhood, 896
folic acid antagonists for, results with, 564
 - Exostoses, osteocartilaginous, histogenesis of, 335
 - Eye, epithelioma, of animals, food-producing, 1114, 1117
 - FAHEY, ROBERT J.: Unusual leukocyte responses in primary carcinoma of the lung, 930-935
 - Fascia, plantar, fibromatoses of, 846-856
 - FENNINGER, LEONARD D., *jt. au.*, 500-514
 - Fibroadenoma, of breast, in chronic cystic disease, 779
cystosarcoma phyllodes of breast and, 1323
 - Fibroma, in childhood, 891
chondroxyloid, of bone, histogenesis of, 337
nonosteogenic, histogenesis of, 339
osteogenic, histogenesis of, 338
of skin, in childhood, 891
 - Fibromatosis, of fascia, plantar, 846-856
etiology of, 852
pathological findings in, 848, 854
surgery for, 854
 - Fibromyoma, in childhood, 891
of uterus, cystosarcoma phyllodes and, 1288
electron-microscope study of, 171
 - Fibrosarcoma, in Bantu, 1227
in childhood, 896
.vs. fibromatosis of fascia, plantar, 853
MCI, methylcholanthrene-induced, inhibition of, by Russian Far East encephalitis virus, 375, 378
transplanted, of rat, incidence of, age of host and, 1239-1262
 - FINESINGER, JACOB E., *jt. au.*, 1159-1170
 - FINN, WILLIAM F., *jt. au.*, 60-77
 - FISHER, J. C., and HOLLOWOM, J. H.: A hypothesis for the origin of cancer foci, 916-918
 - Fistula, oral, repair of, 110
 - FITZGERALD, PATRICK J., *jt. au.*, 936-951
 - FLYNN, PHILIP T., and SEVERANCE, ALVIN O.: Bilateral interstitial-cell tumors of the testis, 817-822
 - Folic acid, inhibition of toxicity, of amino-pterin by, 619-625
time relations in, 621
 - Folic acid antagonists, administration of, method of, 552, 564
antileukemia action of, nucleic acids reversing, 357-359
in leukemia, myeloid, 1000
reactions to, 552
 - FOOTE, FRANK W., JR., *jt. au.*, 86-91
 - Fore stomach, papilloma of, squamous, petroleum-products-induced, in mice, 1243, 1244
 - FOX, J. DEWITT: Virus-like bodies in human cancer. An electron-microscope study of the filterable components of normal and neoplastic tissue, 168-176
 - FRANTZ, VIRGINIA KNEELAND: Arthur Purdy Stout—A Biographical Sketch, 659-662
 - PICKREN, JOHN W.; MELCHER, GEORGE W., and AUCHINCLOSS, HUGH, JR.: Incidence of chronic cystic disease in so-called "normal breasts." A study based on 225 postmortem examinations, 762-783
 - FRAZELL, EDGAR L., and DUFFY, BENEDICT J., JR.: Hürthle-cell cancer of the thyroid. A review of forty cases, 952-956
 - FRENCH, LYLE A.; WILD, JOHN J., and NEAL DONALD: Attempts to determine harmful effects of pulsed ultrasonic vibrations, 342-344
 - FRIEDMAN, MILTON, *jt. au.*, 1095-1106
 - FRIEDMAN, NATHAN B.: The comparative morphogenesis of extragenital and gonadal teratoid tumors, 265-276
jt. au., 1250-1258
 - Furfurylamine, *N,N*-bis(2-chloroethyl)-, in mouse leukemias, 354
 - Gallbladder, cancer of, exfoliative cytology of, 290
carcinoma of, advanced, cortisone for, 985
 - GALLOWAY, DAVID W., *jt. au.*, 913-915
 - Ganglion, in childhood, 891
 - Ganglioneuroblastoma, in thorax, 669, 672
 - Ganglioneuroma, in childhood, 902
differentiated, completely, in childhood, 891
partly, in childhood, 896
 - GARBER, C. ZENT: Reactive bone formation in Ewing's sarcoma, 839-845
 - GARDNER, ELDON J., *jt. au.*, 515-520
 - Gastrectomy, subtotal, in carcinoma of stomach, recurrence after, 959
and hepatectomy, partial, in carcinoma of stomach, of stomach, 968-971
total, radical, prearectomy, partial, and splenectomy, technique of, 964
 - HELLHORN, ALFRED, *jt. au.*, 883-889
 - Germinoma, of testis, 267
 - GILLES, NORBERT G., *jt. au.*, 1259-1262
 - Globose tumor of bone, histogenesis of, 340 of stomach, 726-736
 - Glutathione, effect of, on nucleic acid inhibition, roentgen-ray-induced, 364
 - Glycine-C¹⁴-labeled, tissue uptake of, 383-386
effect on 2,6-diaminopurine, 187, 194
 - Glycoproteins, of serum, in liver disease, 972-983
in tumors, metastatic, 972-983
 - Goats, tumors of, 1115
 - GODWIN, JOHN T., and ESCHER, GEORGE C.: Hormone-treated primary operable breast carcinoma. A pathological study of thirty-three cases, 136-140
 - DUFFY, B. J., JR.; FITZGERALD, PATRICK J.; TRUNNELL, J. B., and RAWSON, RULON W.: Pathological effects and radioautographic localization of I¹³¹ in humans. Postmortem study in nine patients, 936-951
 - GOETZL, FRANZ R., *jt. au.*, 570-578
 - Goiter, intrathoracic, I¹³¹ studies on, post-mortem findings in, 936
 - Gold, radioactive, colloidal metallic, for leukemia Ak 4, acute, 634-636
 - GOLDBERG, BENJAMIN, and SCHOENBACH, EMANUEL B.: The biological and antineoplastic properties of three triazine derivatives, 1125-1139
 - GOLDIN, ABRAHAM, *jt. au.*, 619-625
 - GOLDSMITH, YVETTE, *jt. au.*, 1036-1042
 - GORDON, DOUGLAS, *jt. au.*, 319-323
 - GORMSEN, HARALD, *jt. au.*, 387-397
 - GRAFF, MORRIS M., *jt. au.*, 972-983
 - Graft(s), to line oral cavity, 112-119
 - Granulocytes, histamine of, in leukemia, myelogenous, 572
 - Granuloma, Hodgkin's, transplantation of, heterologous, 1016
 - GREENBERG, DAVID M., *jt. au.*, 383-386
 - GREENSPAN, ERZA M.; GOLDIN, ABRAHAM, and SCHOENBACH, EMANUEL B.: Studies on the mechanism of action of chemotherapeutic agents in cancer. V. Influence of the citrovorum factor and folic acid on the toxic manifestations of aminopterin in mice, 619-625
 - LEHMAN, ISRAEL; GRAFF, MORRIS M., and SCHOENBACH, B. EMANUEL: A comparative study of the serum glycoproteins in patients with parenchymatous hepatic disease or metastatic neoplasia, 972-983
jt. au., 1246-1249
 - GRIMM, A. CLARK; CUNNINGHAM, LEW; BRANDT, EUGENIA L., and KUPKE, D. W.: Effect of a carcinogenic azo dye on radiophosphorus turnover in
 - rat-liver nuclei and cytoplasm, 410-415
jt. au., 1030-1035
 - GROSS, H. A., *jt. au.*, 1341-1363
 - GROSS, LUDWIK: The "vertical" transmission of mouse mammary carcinoma and chicken leukemia; its possible implications for human pathology, 626-633
 - Growth, behavior, of cystosarcoma phyllodes, 1288, 1331
of sarcoma, 180, inhibition of, by St. Louis encephalitis virus, 374
 - tumor, inhibition of, by Russian Far East encephalitis virus, 375-382
 - GRUNSTEIN, MARGOT, *jt. au.*, 988-993
 - Guanosine, effect on crotosonide, 195
 - GUSBERG, S. B., and CORSCADEN, J. A.: The pathology and treatment of adenocarcinoma of the cervix, 1066-1072
 - HAAGENSEN, C. D.: Mammary-duct ectasia. A disease that may simulate carcinoma, 749-761
 - HAHN, PAUL F.; SKIPPER, HOWARD E.; CAROTHERS, E. L., and BERNARD, LOUIS J.: The effect of radioactive colloidal metallic gold in the treatment of "acute" Ak-4 leukemia in mice, 634-636
 - HALL, JOHN W., and SUN, SHAO-CHIEN: Effect of portal cirrhosis on the development of carcinomas, 131-135
 - HALPERT, BÉLA, *jt. au.*, 737-744
 - HARRIS, CHARLES, *jt. au.*, 988-993
 - HARVEY, HAROLD D.; TITTERINGTON, JOHN B.; STOUT, ARTHUR P., and ST. JOHN, FORDYCE B.: Gastric carcinoma. Experience from 1916 to 1949 and present concepts, 717-725
 - Head, cancer of, inoperable, Co⁶⁰ in, technique of, 1333
 - HEANEY, JOHN P.; WISE, ROBERT A., and HALPERT, BÉLA: Carcinoma of the duodenum with hypercholesterolemia and xanthomatosis, 737-744
 - Heart, myoblastoma of, granular, in childhood, 896
 - HEINEMANN, M. W., and LEHMAN, W. L.: Mediastinal mesenchymoma masquerading as liposarcoma, 692-696
 - Hemangioblastoma, carbonyl groups in, 591
 - Hemangioendothelioma, of bone, histogenesis of, 340
in childhood, 891
 - Hemangioma, of bone, histogenesis of, 340
cavernous, in childhood, 891
 - Hemangiopericytoma, benign, in childhood, 891
malignant, in childhood, 898
 - Hemoglobin, in leukemia, acute, 48
 - Hepatoma, in mice, stilbamidine (and 2-hydroxy-) deposition and, 1246
 - Heredity, in cancer, of breast, 513-520, 632, 745
human, human milk and, 632
in "vertical" transmission of tumors, 626-633
 - Heterophile antibody, titers of, in leukemia, acute, 49
 - Hexamethylenediamine, tetrakis(2-chloroethyl)-, in mouse leukemias, 354
 - HIGINBOTHAM, NORMAN L., *jt. au.*, 1107-1112
 - HILL, ROBERT P.: Neuroma of Wagner-Meissner tactile corpuscles, 879-882
 - MILLER, FRANKE N., JR.: Combined mesenchymal sarcoma and carcinoma (carcinosarcoma) of the uterus, 803-816
 - Histamine, blood, in leukemia, myelogenous, 570-578
 - HITCHINGS, GEORGE H., *jt. au.*, 186-197
 - HN2. See also Nitrogen mustard
Cu-labeled, in mice, leukemia, 1025-1027
effect of, enzyme inhibitor to evaluate, 177-183
 - on *Escherichia coli*, 398-400
 - on mucosa, of intestine, 1251
 - intra-arterial administration, effect of, 1341-1363
 - pathological findings in, 1346
 - technique of, in dogs, 1341
in man, 1352
 - in leukemia, mouse, 353-356, 360, 361
 - toxicity of, reduction of, by cysteine, 1030-1035

INDEX OF ORIGINAL ARTICLES

[1377]

- HN3, toxicity of, reduction of, by cysteine, 1031
- Hodgkin's disease, antigens in, heterophile, 1040
in Bantu, 1227
in childhood, 896
cryptococcosis and, 885, 886
folic acid antagonists for, results with, 562
metabolism in, 501, 510
nitrogen mustard for, enzyme-inhibitor evaluation of, 180
stilbamidine, 2-hydroxy-, deposition and, 1248
- Hodgkin's granuloma, transplantation of, heterologous, 1016
- HOLLOWOM, J. H., *jt. su.*, 916-918
- HOLZAPFEL, JOHN H.: Results of treatment of squamous-cell carcinoma of the cervix, 251-254
- Hormone(s). *See also* specific names of in cancer, of breast, 319-323
excretion of, in cancer, of breast, testosterone propionate therapy and, 319-323
in melanoma, malignant, 332
- HORN, ROBERT C., JR.: Carcinoma of the thyroid. Description of a distinctive morphological variant and report of seven cases, 697-707
- Horses, tumor of, 115
- HORWITZ, BENJAMIN N., *jt. su.*, 319-323
- HOWARD, LEE, JR.; ERICKSON, CYRUS C., and STODDARD, LELAND D.: A study of the incidence and histogenesis of endocervical metaplasia and intraepithelial carcinoma. Observations on 400 uteri removed for noncervical disease, 1210-1223
- HUDACK, STEPHEN S.: Restitutive approach to lesions of bone, 823-834
- Hydantoin, in mouse leukemias, 360
- Hydroquinone, in mouse leukemias, 361
- Hygroma, in childhood, 891
- Hypercholesterolemia, in carcinoma, of duodenum, 737
- Hypernephroma, stilbamidine deposition and, 1249
true kidney, 789-802
pathological findings in, 791
tumors associated with, 792
- Hypoxanthine, effect on 2,6-diaminopurine, 187, 193
- I^m, in carcinoma, of thyroid, histological changes due to, 949
therapeutic effect, 950
diiodotyrosine labeled with, uptake of, 345-352
pathological effects of, 936-951
- radioautographic studies with, 936-951
- Illness, definition of, by patient, 221
- Inclusion bodies, in virus, from adenocarcinoma EO 771, 401-409
from C57 mice, 401-409
- Indole, 2,3-dimethyl-, in mouse leukemias, 361
- Infants, nevi of, 11
- Intestine, effect of HN2 on, after intrarterial injection, 1346
- mucoza of cell dynamics of, 1250-1258
- small, adenomyoma of, in childhood, 891
- wall of diethylstilbestrol storage in, 298
- Intracranial pressure, factors in, 249
- jugular-vein ligation and, 242-250
- Irradiation, in melanoma, malignant, 326
- Isocyanate, phenyl, in mouse leukemias, 360, 361
- Isoguanine, effect on 2,6-diaminopurine, 187, 193
- Isopropylamine, *N,N*-bis(2-chloroethyl)-, in mouse leukemias, 356
- JAMES, ARTHUR G.; WILLIAMS, ROGER D., and MORTON, JOSEPH L.: The use of radioactive cobalt in nonresectable head and neck cancer, 1333-1336
- Jaundice, in carcinoma, of pancreas, 237
- JAVERET, CARL T., and FINN, WILLIAM F.: Arrenoblastoma. The incidence of malignancy and the relationship to pregnancy, to sterility, and to treatment, 60-77
- Jaw, resection of, in cancer, of mouth and neck, 102
- Jews, leukemia, acute, among, 50
- JOHNSON, RACHEL P., *jt. su.*, 398-400
- JOHNSON, S. F., *jt. su.*, 353-356
- JONES, GEORGEANNA S., *jt. su.*, 537-548
- JONES, HOWARD W., JR., *jt. su.*, 537-548
- JONES, S. EUGENE, *jt. su.*, 1028
- KARNOFSKY, DAVID A., *jt. su.*, 549-569
- KAY, S.; CALLAHAN, W. P., JR.; MURRAY, M. R.; RANDALL, H. T., and STOUT, A. P.: Glomus tumors of the stomach, 726-736
- KEMLER, R. LEONARD, *jt. su.*, 919-929
- KESSLER, RICHARD W., *jt. su.*, 866-878
- Ketosteroid(s), arrenoblastoma and, 62
- 17-Ketosteroids, in cancer, of breast, testosterone propionate therapy and, 319
- KEUTMANN, E. HENRY, *jt. su.*, 500-514
- Kidney, adenocarcinoma of, radioautography in, postmortem findings in, 939
cancer of, in Bantu, 1230
carcinoma of, in renal-cell, transplantation of, heterologous, 1016, 1019
hypernephroma of, true kidney, 789-802
melanocarcinoma of, transplantation of, heterologous, 1019
myolipoma of, true kidney hypernephroma and, 800
tumors of, mixed, in childhood, 896
- KING, REED A., and LEACH, JOHN E.: Habits of medical care, 221-225
- KINGSLY-PILLERS, ELIZABETH M., *jt. su.*, 549-569
- KLOPP, C. T., *jt. su.*, 1341-1363
- KOPROWSKA, IRINE, *jt. su.*, 141-146
- KOUVOURDJIAN, ALEX O., and McDONALD, JOSEPH J.: Association of congenital adrenal neuroblastoma with multiple anomalies, including an unusual oropharyngeal cavity (imperforate buccopharyngeal membrane?), 784-788
- KRITZLER, ROBERT A.; MULLIKEN, BARBARA, and TURNER, JOSEPH C.: A hitherto undescribed virus forming inclusion bodies in the organs and an experimental tumor of C57 mice, 401-409
- KUPKE, D. W., *jt. su.*, 410-415
- Lactobacillus casei*, effect of folic acid antagonists on, 549
- Lame foliaceae, of nevi, 27
- LANGENBECK, B. R. K. VON: Frontispiece, facing page 1159
- LANGHAM, WRIGHT H., *jt. su.*, 1025-1027
- Larynx, cancer of, untreated, survival with, 3 carcinoma of, squamous, in Bantu, 1227
papilloma of, in childhood, 891
polyp of, in childhood, 891
- LATTES, RAFFAELE, and KESSLER, RICHARD W.: Metastasizing basal-cell epithelioma of the skin. Report of two cases, 866-878
- LAWRENCE, WALTER, JR., *jt. su.*, 957-967
- LAYTON, LAURENCE L.: The anabolic metabolism of radioactive sulfate by animal tissues in vitro and in vivo, 198-201
- LEACH, JOHN E., *jt. su.*, 221-225
- LEHMAN, ISRAEL, *jt. su.*, 972-983
- LEHMAN, W. L., *jt. su.*, 692-696
- Leiomysarcoma, in Bantu, 1227
in childhood, 896
- LEMON, HENRY M.; RAVIN, IVER S.; ROSS, JOSEPH F.; SISSON, JOHN H.; ANGLEM, THOMAS J., and BRANCA, A. W.: Testosterone therapy of metastatic adenocarcinoma of the thyroid, with remission. Case report, 1176-1192
- Leucoderma centrifugum acuuminatum, 21, 35
- Leukemia, ACTH for, 554, 565
acute, blood in, 48
blood groups in, 49
bone involvement in, 50
death in, cause of, immediate, 50
definition of, 39
duration of, 39-59
effect of 2,6-diaminopurine on, 549-569
folic acid antagonists on, 549-569
heterophile-antibody titers in, 49
incidence of, hospital, 50
infection and, 41
lymphatic, distribution of, by age and sex, 40
lymphoid, survival in, 42
metabolism in, 503, 511
mortality in, 40
myeloid, distribution of, by age and sex, 40
survival in, 42
physical findings in, 47
prothrombin time in, 49
race in, 50
remissions of, 52
factors in, 44
spontaneous, 39-59
- Leukemia, acute, *cont'd*
survival in, age and sex in, 41
cytology and, 42
long, case reports of, 51, 52
symptoms of, initial, 47
treatment of, survival and, 42
- Ak 4, acute, radioactive colloidal metallic gold for, 634-636
chemotherapy of, 357
- of animals, food-producing, 1114, 1118
antibodies in, heterophile, 1039
antigens in, heterophile, 1040
"blast," in childhood, 896
chemotherapy of, 353-356
chicken, transmission of, "vertical," 626-633
- cortisone for, 554, 565
- 2,6-diaminopurine for, results with, 554
folic acid antagonists for, results with, 554
leukocytes of, peripheral, metabolism of, 1009-1014
- lymphatic, acute, remissions of, 53
in Bantu, 1227
in childhood, 896
leukocytes of, peripheral, metabolism of, 1009
untreated, survival with, 4
- lymphocytic, antibodies in, heterophile, 1039
- lymphoid, Ak 4, chemotherapy of, 360
Ak 9417, nitrogen-mustard effect on, 353-356
- monocytic, antibodies in, heterophile, 1041
- mouse, effect of, aminopterin on, 551
- myeloblastic, 51
- myelocytic, antibodies in, heterophile, 1039
- myelogenous, in Bantu, 1227
histamine of blood in, 570-578
leukocytes of, peripheral, metabolism of, 1009
survival in, histamine:granulocyte ratio and, 572
- untreated, survival with, 4
- myeloid, acute, remission in, case reports of, 56, 57
in childhood, 896
- conditions associated with, 1005
factors in, of interest, in history, 1000
P_g for, 999-1008
symptoms in, 1004
treatment of, ancillary agents in, 1000, 1004
- natural history of, 39-59
- plasma-cell, amethopterin and urethane for, 1043-1051
histogenesis of, 396
of mouse, 387-397
- stem-cell, in childhood, 896
- of mouse, 388
- Leukemoid reactions, in carcinoma, of lung, 930-935
mechanisms in, 933
- Leukocytes, peripheral, in leukemia, metabolism of, 1009-1014
- Leukocytosis, in leukemia, acute, 48
survival and, 44
- LEVY, J. ELLIOT, *jt. su.*, 537-548
- LEWISON, EDWARD F.; LEVY, J. ELLIOT; JONES, GEORGEANNA S.; JONES, HOWARD W., JR., and SILBERSTEIN, HANNAH E.: Tracer studies of radioactive sodium estrone sulfate (³S⁰) in cases of advanced breast cancer, 537-548
- LICHENSTEIN, LOUIS: Classification of primary tumors of bone, 335-341
- LIEBEN, F., *jt. su.*, 1246-1249
- LINDSKOG, GUSTAF E., *jt. su.*, 1171-1175
- Lip, cancer of, metastatic, to neck, 93, 449
carcinoma of, transplantation of, heterologous, 1016
- Lipoma, in childhood, 891
- Liposarcoma, of bone, histogenesis of, 340
in childhood, 896
of mediastinum, 692
- Liver, angiomyoma of, in childhood, 896
carcinoma of, in Bantu, 1229
carcinoma of, and cirrhosis, portal, 132
hepatoma type, in childhood, 896
metastases from sites of, 132
- cyst of, in childhood, 891
- diethylstilbestrol storage in, 298
- melanocarcinoma of, transplantation of, heterologous, 1017
- mesenchymoma, in childhood, 896
of rat, ³P uptake by, effect of 3'-methyl-4-dimethylaminobenzene on, 410-417

- Liver, *cont'd*
 tumors of, mesodermal, in childhood, 896
 β -methyl-4-dimethylaminoazobenzene-induced, Pn uptake by, 411
 petroleum-products-induced, in mice, 1242
 primary, in children, 898
- LOEFFEL, JOHN B., and GILLES, NORBERT G.: Incidence of a transplanted rat fibrosarcoma relative to age of the host, 1259-1262
- DELONG, ROBERT P., *et al.*, 610-618
- LOW-BEER, B. V. A., *et al.*, 570-578
- LOWENHAUPT, ELIZABETH, and BROWN, REYNOLD: Carcinoma of the thymus of granulomatous type. A clinical and pathological study, 1193-1209
- Lung, adenoma of, transplantation of, heterologous, 1016
- carcinomas of, in Bantu, 1230
 bronchiolarcogenic, origin of, multiple, 277-285
 pathological findings in, 277
 diagnosis of, methods of, 1172
 folic acid antagonists for, results with, 564
 nitrogen mustard in, enzyme-inhibitor evaluation of, 178
 petroleum-products-induced, in mice, 1242
 primary, 663-668
 leukemoid reaction in, 930-935
 operability of, 665
 survival in, 666
 symptoms of, 664
 review of three series, 1171-1175
 site of primary, 1171
 symptoms of, 1171
 transplantation of, heterologous, 1016, 1021
- carcinosarcoma of, 919-929
- Lymph node(s), abdominopelvic, dissection of, in cancer, of colon and rectum, 1364-1366
 anatomy of, in neck dissection, 455
 vs. "glands," 444
 of internal mammary chain, dissection in continuity with mastectomy, radical, 1280
 in recurrence, of cancer, of breast, 1265
 Lymph spaces, perineal, in carcinoma, of pancreas, 238
- Lymphangioma, in childhood, 891
- Lymphatics, anatomy of, in neck dissection, 454, 456
- Lymphoblastoma, giant-follicular, of appendix, 995
 untreated, survival with, 4
- Lymphocytoma, transplantation of, heterologous, 1016
- Lymphoepithelioma, of pharynx, in childhood, 896
- Lymphoma, of animals, food-producing, 1114, 1118
 in childhood, 896
 malignant, of bone, histogenesis of, 340
 petroleum-products-induced, in mice, 1241
 transplantation of, heterologous, 1016
 untreated, survival with, 4
- Lymphosarcoma, antibodies in, heterophile, 1039
 in Bantu, 1227
 in childhood, 896
 cryptococciosis and, 884, 885, 886
 folic acid antagonists for, results with, 561, 563
 Gardner, 384
 L-1, effect of triazine derivatives on, 1133
 lymphocytic, of appendix, 994
 mouse, C^4 -labeled-glycine uptake by, 384
 stilbamidine (and 2-hydroxy-) deposition and, 1247
- Patterson, effect of, aminopterin on, 551
 primary, of appendix, 994-998
 pathological findings in, 996
 reticulum-cell, of appendix, 994
- McBRIDE, ANDREW F., JR.: Benign polypoid tumor of the esophagus, 708-716
- MCCLELLAND, JAMES N., *et al.*, 913-915
- MCOLLUM, WILLIAM, and PUND, EDGAR R.: Preinvasive adenocarcinoma of the appendix. Report of sixteen cases, 261-264
- McCORD, WILLIAM M., *et al.*, 984-987
- MCDONALD, JOSEPH J., *et al.*, 784-788
- MCINNES, GEORGE, *et al.*, 957-967
- MCKEE, KELLY T., *et al.*, 984-987
- MCNEER, GORDON; SUNDERLAND, DOUGLAS A.; MCINNES, GEORGE; VANDEN-
- BERG, HENRY J., JR., and LAWRENCE, WALTER, JR.: A more thorough operation for gastric cancer. Anatomical basis and description of technique, 957-967
- MC SWAIN, BARTON, and WILLIAMS, R. B., JR.: The relative frequency of cancer, 416-422
- Maleic hydrazide, in mouse leukemias, 361
- Mammalithiasis, in chronic cystic disease, of breast, 781
- Mammary-duct ectasia, etiology of, 757
 nipple discharge in, 751
 simulating carcinoma, of breast, 749
 synonyms for, 749
 treatment of, 760
- MARTIN, HAYES: The case for prophylactic neck dissection, 92-97
- Richard Wiseman on cancer, 907-912
- and FOOTE, FRANK W., JR.: A third case of so-called retinal anlage tumor, 86-91
- DEL VALLE, BERNARDO; EHRLICH, HARRY, and CAHAN, WILLIAM G.: Neck dissection, 441-449
- Masculinization, arrenoblastoma and, 61
- MASSON, P.: My conception of cellular nevi, 9-38
- Preface to July issue: Festscrift Honoring Arthur Purdy Stout, page preceding Frontispiece, which faces p. 659
- Mastitis, chronic, cystic. *See* Chronic cystic disease
- Maxilla, retinal anlage tumor of, 86-91
- Mediastinum, liposarcoma of, 692
 mesenchymoma of, pathological findings in, 693
 simulating liposarcoma, 692-696
 tumor in, in leukemia, acute, 48
 neurogenous, 671, 675
- Medical care, habits of, 221-225
 reasons for seeking, patient's, 222
- MEISSNER, G. F., *et al.*, 1015-1024
- Melamine, for carcinoma, granulomatous type of thymus, 1199
 effect of, on sarcoma 180, 1132
 pathological findings after, 1126
 toxicity of, 1126
- Melanoblasts, nevi and, 9
- Melanocarcinoma, transplantation of, heterologous, 1016, 1017, 1019
- Melanoma, in Bantu, 1227
 folic acid antagonists for, results with, 564
- Harding-Passey, effect of, aminopterin on, 551
- malignant, hormones for, 332
 pregnancy and, age in, 327
 prognosis of, 324-334
 sites of, pregnancy and, 327
 transmission of, placental, 332
 of uvea, metastatic to rib, 123, 127
 nevi and, relation of, 36
- MELCHIE, GEORGE W., *et al.*, 762-783
- Meningioma, in Bantu, 1227
- Menopause, vaginal cells in, alkaline phosphatase of, 160
- Menstruation, vaginal cells in, alkaline phosphatase of, 160
- Mesenchymoma, of liver, in childhood, 986
 mediastinal, simulating liposarcoma, 692-696
- Metabolism, of cancer patients, 500-514
- Metacarpal, enchondroma, surgery of, 835-838
- Metaplasia, endocervical, histogenesis of, 1210-1223; 1215
 incidence of, 1210-1223
 pathological findings in, 1213, 1214
- Metastases, of arrenoblastoma, 63
 to breast, in chronic cystic disease, of breast, 781
 in cancer, of breast, sites of, 1264
 of carcinoma, of duodenum, 739
 Hurthle-cell, of thyroid, 954
 of lung, leukemoid reactions and, 933
 mucoid, of rectum, 604
 of pancreas, findings in, 238
 primary, of lung, 664
 of prostate, simulating breast cancer, 303-311
 sites of, 307
 of stomach, 718, 722
 postoperative, 959
 sites of, 960
 of sweat glands, 522, 532
 of thyroid, morphological variant of, 697-707
 testosterone for, 1176-1192
- Metastases, *cont'd*
 of carcinosarcoma, 919
 of uterus, 813
 cervical, bilateral or crossed, neck dissection in, prophylactic, indications for, 452
 in cancer, of lip, 93, 449
 of tongue, 94, 450
 sites of, primary, 443
 of cystosarcoma phyllodes, of breast, 1326
 of dermatofibrosarcoma protuberans, 1084
 distant or systemic, after neck dissection, 492
 of epithelioma, basal-cell, of skin, 866-878
 of germinoma, 265
 to lymph nodes, cervical, in cancer, of tongue, 99
 of lymphosarcoma, of appendix, 996
 of melanoma, malignant, 325
 of mesenchymoma, 694
 of tumor, interstitial-cell, malignant, of testis, extratesticular in origin, 312-318
 to vertebrae, vertebral veins in, 610-618
- Methyamine, *N,N*-bis(2-bromo- α -propyl)-, in mouse leukemias, 356
N,N-bis((2-chloroethyl)thioethyl)-, in mouse leukemias, 354
N,N-bis(2-cyanoethyl)-, in mouse leukemias, 356
- Methylbis(2-chloroethyl)amine. *See* HN2
- Nitrogen mustard
- Methylcholanthrene, carcinogenetic effect of, on gastric instillation, in olive oil, 988-993
 heated, 988-993
- leukemias induced by, in mice, 388
 tumors induced by, in mice, 388
- MEYER, LEO M., and RUTZKY, JULIUS: An unusual case of acute plasma-cell leukemia treated with a folic acid antagonist and urethane, 1043-1051
- Mice, ABC, 1126
 Akm, 353, 1025
 A-strain, 621, 1126
 C57 black, 298
 CF-1, 1126
 CFW, 367
 dba, line-a, 1031
 Street, 387
 Swiss albino, 1031
 tumors of, plasma-cell, 387-397
- Milk, human, electron-microscope study of, 631
- MILLAR, B., *et al.*, 159-167
- MILLER, FRANK N., JR., *et al.*, 803-812
- MILLER, JOHN RALPH; BAGGENSTOSS, ARCHIE H., and COMFORT, MANRED W.: Carcinoma of the pancreas. Effect of histological type and grade of malignancy on its behavior, 233-241
- MITCHELL, JACK H., JR., *et al.*, 363-366
- Mitosis, in mucosa, of intestine, HN2 effect on, 1251
 roentgen-ray effects on, 1250
- Moles, histogenesis of, 33
 pigmented, excision of, indications for, 333
 management of, 329
- MOORE, ALICE E.: Inhibition of growth of five transplantable mouse tumors by the virus of Russian Far East encephalitis, 375-382
- MOORE, OLIVER, and SMITH, ROBERT: A case of one-stage bilateral neck dissection with recovery, 1337-1340
- MOORE, RICHMOND L.: Primary carcinoma of the lung. A ten-year study at the Presbyterian Hospital in the City of New York, 663-668
- MORSE, DREDEN PHELPS: The hereditary aspect of breast cancer in mother and daughter, 745-748
- MORTON, JOSEPH L., *et al.*, 1333-1336
- MOSELEY, VINCE, *et al.*, 984-987
- Mouth, cancer of, neck dissection in, radical, operation for, composite, 98-109
 pull-through modification of, 106
 untreated, survival with, 3
- carcinoma of, squamous, in Bantu, 1226
 lining of, replacement of, after surgery, 110-119
- Mucoprotein, of serum, 974
- MULLIKEN, BARBARA, *et al.*, 401-409
- MURDOCH, JOHN H., JR., *et al.*, 984-987
- MURISON, PAUL J., *et al.*, 319-323
- MURRAY, MARGARET R.: Cultural characteristics of three granular-cell myoblastomas, 857-865
et al., 726-736

- Mycosis fungoides, folic acid antagonists for, results with, 563
- Myeloma, of bone, histogenesis of, 340
multiple, stilbamidine, 2-hydroxy-, deposition and, 1248, 1249
plasma-cell, amethopterin for, results with, 563
- MYERS, W. P., LAIRD, *jt. au.*, 549-569
- Myoblastoma, granular, of heart, in childhood, 896
granular-cell, histogenesis of, 865
tissue culture of, 857-865
- Myiolipoma, of kidney, true kidney hypernephroma and, origin of, 800
- Naevi incipientes, of infants, 11
neurites of, 31
- NEAL, DONALD, *jt. au.*, 342-344
- Neck, cancer of, inoperable, Co⁶⁰ in, technique of, 1333
metastatic, neck dissection for, prophylactic, indications for, 92, 448
tumors of, metastatic, in cancer of, mouth, operation for, composite, 98-109
pull-through modification of, 106
- Neck dissection, 98-109; 441-499
anatomy of, surgical, 454
anesthesia for, 100, 458
bilateral, complications of, 486
one-stage, 1337-1340
prognosis in, 498
carotids in, 468
combined with other surgery, 471
complications after, 474
contraindications to, dubious, 447
definitions in, 443
end results of, 495
indications for, 445
metastasis after, distant or systemic, 492
mortality in, operative, 492
operations for, 100, 442
partial, technique of, 467
postoperative care, 471
preparation for, preoperative, 456
prognosis in, 497
factors affecting, 497
prophylactic, indications for, 92-97, 448
radiation therapy, postoperative, 488
vs. radiation therapy, 447
radical, jugular-vein ligation in, intracranial pressure in, 242
recurrence after, 490
"supraomohyoid," 467
technique of, 456
in cancer of mouth and neck, 103
flaps for, musculocutaneous, 458
incisions for, 101, 458
- tracheostomy in, 101, 466
- Nephroblastoma, in Bantu, 1227
Nerve,
cutaneous, nevi and, 10
degenerating, carbonyl groups in, 587
optic neuroepithelioma of, in childhood, 896
- Nervous tissue, carbonyl groups in, 581
- Neurilemma, ancient, in thorax, 669, 679
of bone, histogenesis of, 340
of childhood, benign, 891
malignant, 896
in thorax, 669, 679
- Neurinoma of bone, histogenesis of, 340
- Neuroblastoma, in Bantu, 1227
C1300, inhibition of, by Russian Far East encephalitis virus, 376, 380
congenital, of adrenal, anomalies associated with, 784-788
in thorax, 669, 672
- Neuroepithelioma, of optic nerve, in childhood, 896
- Neurofibroma, of bone, histogenesis, 340
carbonyl groups in, 589
in childhood, 891
in thorax, 669, 680
- Neurofibrosarcoma, in Bantu, 1227
- Neurons, of Wamner-Meissner tactile corpuscles, 879-882
pathological findings in, 880
- Nevi. *See also* Melanoma
adult, cells of, epithelioid, significance of, 31
corpuscles of, nevic, 27
cytology of, 23
faisceaux neuroides of, 25
fibres neuroides of, 25
foliated lamina of, 27
interstitial tissue of, 23
neurites of, 31
neuroid bundles of, 26
neuroid fibers of, 25
palmar and plantar, 21
- Nevi, adult, *cont'd*
stains for, silver, 25
trichrome, 25
structure of, general, 21
variations in, site and, 24
- blue, of Tiesche-Jadassohn, 9
cells of, 9
cellular, 9-38
in children, 891
prepubertal, 20
compound, 9
histogenesis of, 11, 35
histogenesis of, 11
intradermal, 9
histogenesis of, 35
junctional, 9, 33
- Langerhans cells and, 10
melanoblasts and, 9
melanoma and, relation of, 36
schwannian tissue and, 18
stages of, early, 11
later, 15
- Nipple, in chronic cystic disease, 778, 779
discharge from, in mammary-duct ectasia, 751
- Paget's disease of, with cancer, of breast, 150-153
- Nitrogen exchange, in cancer patients, 500-514
- Nitrogen mustards. *See also* specific names of
in carcinoma, granulomatous type, of thymus, 1198, 1199
chemistry of, and chemotherapeutic effect, 353
effect on A and B nuclei, 157
in Hodgkin's disease, metabolism in, 511
for leukemia, 353-356
acute, survival and, 43
myeloid, 1000
toxicity of, reduction of, compounds tested, 1032
- NOLAN, JAMES F., and BUDD, JOHN W.: An instrument designed for biopsy of the uterine cervix, 1367-1371
- NORBERG, ETHELDA, and GREENBERG, DAVID M.: Incorporation of labeled glycine in the proteins of tissues of normal and tumor-bearing mice, 383-386
- Nuclear-cytoplasmic ratio, in cytology of, carcinoma, squamous-cell, of cervix, 259
- Nucleic acid, desoxyribo-, P³² uptake by, effect of 3'-methyl-4-dimethylaminooazobenzene on, 411
desoxysribose, anti-folic acid antagonist action of, 357
C¹⁴ incorporation into, roentgen-ray inhibition of, 363-366
ribo-, P³² uptake by, effect of 3'-methyl-4-dimethylaminooazobenzene on, 411
ribo-, anti-folic acid antagonist action of, 357
- Nucleus, in carcinoma in situ, squamous-cell, of cervix, 257
in cytological diagnosis, 154-158
of liver, P³² uptake by, effect of 3'-methyl-4-dimethylaminooazobenzene on, 410-417
- of nevi, adult, 23
in vaginal smear, alkaline phosphatase of, 159
- Olive oil, heated, effect on methylcholanthrene carcinogenesis, 988
- Oral cavity, cancer of, untreated, survival with, 3
- Orchiectomy, bilateral, in carcinoma, of prostate, evaluation of, 1087-1094
- Osteochondroma, recurring, in childhood, 896
- Osteoclastoma, in Bantu, 1227
- Osteoid-osteoma, histogenesis of, 338
- Osteoma, in childhood, 891
- Osteosarcoma, in Bantu, 1227
- Ovary, arrenoblastoma of, 60-77
carcinoa of, metabolism in, 506
in chronic cystic disease, of breast, 781
cyst of pseudomucinous, cystosarcoma phyllodes, 1288
tumors of, teratoid, morphogenesis of, 267
theca-cell, in Bantu, 1226
- P³² in leukemia, myeloid, ancillary agents used with, 1004
as tracer of erythrocyte phosphate, 184
turnover, in erythrocytes, of mice, with carcinoma, 1028-1029
- P³², *cont'd*
uptake of, in leukemia, myeloid, sites of, 1006
by liver of rat, 3'-methyl-4-dimethylaminooazobenzene effect on, 410-417
- PACK, GEORGE T., and SCHARNAGL, ISABEL M.: The prognosis for malignant melanoma in the pregnant woman, 324-334
jt. au., 1052-1065
- Page's disease,
of nipple, with cancer, of breast, 150-153
stilbamidine deposition and, 1249
- Pain, bone in leukemia, acute, 50
- Palate, carcinoma of, squamous-cell, Co⁶⁰ for, 1334
- Pancreas, cancer of, exfoliative cytology of, 290
carcinoma of, course of, factors in, 233-241
grade of malignancy and, 233-241
histological type and, 233-241
metabolism in, 505
pancreatojejunostomy for, 226-232
pathological findings in, 235
cyst of, multilocular, in childhood, 891
- Pancreatojejunostomy, telescopic, technique of, 226-232
- Papain, for cell concentration, in exfoliative cytology, 147-149
- PAPANICOLAOU, GEORGE N., and KOPROWSKA, IRENE: Carcinoma in situ of the right lower bronchus. A case report, 141-146
jt. au., 286-295
- Papilloma, of larynx, in childhood, 891
of skin, in childhood, 891
petroleum-products-induced, growth behavior of, 1236
morphology of, 1236
sites of, in mice, 1233
of tongue, in childhood, 891
of vocal cord, in childhood, 891
- Parotid, cyst of, in childhood, 891
tumor of, mixed, in childhood, 891
- PARSONNET, VICTOR, *jt. au.*, 277-285
- PARSONS, HERBERT, *jt. au.*, 78-85
- PATE, CHARLES E., *jt. au.*, 968-971
- Patients, with cancer, psychology of, 1159-1170
- Penis, carcinoma of, in Bantu, 1226
- PENNER, D. W.: Metastasizing dermatofibrosarcoma protuberans. A case report, 1083-1086
- Pentothal sodium, as anesthetic, in neck dissection, 458
in surgery, of mouth and neck, 100
Petroleum products, tumors induced by, 1232-1245
- Pharynx, lymphoepithelioma of, in childhood, 896
- Phenylamine, N-(2-chloroethyl)-, in mouse leukemias, 356
- Pheochromocytoma, in childhood, 891
- Phosphatase, alkaline, in cells, in vaginal smear, 159-167
- Phosphorus, radioactive. *See also* P³²
in leukemia, acute, survival and, 43
myeloid, 999-1008
- Phthalamic acid, N-(2-chlorophenyl)-, in mouse leukemias, 361
N-1-naphthyl-, in mouse leukemias, 361
- Phthalanil, in mouse leukemias, 361
- Physician, psychological mechanisms in patients with cancer, 1159-1170
- PICKREN, JOHN W.; SMITH, ALBERT G.; STEVENSON, THOMAS W., JR., and STOUT, ARTHUR PURDY: Fibromatoses of the plantar fascia, 846-856
jt. au., 762-783
- Pilonidal cyst, in childhood, 891
- Pineal gland, tumor of, teratoid, morphology of, 268
- Piperazine, 1,4-bis(2-chloroethyl)-1,4-, in mouse leukemias, 354
- Plasmacytoma, in Bantu, 1227
of mouse, 387-397
- transplantation of, heterologous, 1016
- Polycythemia, stilbamidine, 2-hydroxy-, deposition and, 1248
- Polyp, benign, large, of esophagus, 708-716
pathological findings in, 712
cervical, cystosarcoma phyllodes and, 1288
- of colon, in childhood, 891
- of ear, external, in childhood, 891
- of larynx, in childhood, 891
- of rectum, in childhood, 891
- of vocal cord, in childhood, 891
- Polysaccharides, of serum, 974

- Portio vaginalis, epithelium of, squamous, cytology of, 1217
- POSTLETHWAIT, R. W.; MOSELEY, VINCE; MCKEE, KELLY T.; MURDOCH, JOHN H., Jr., and McCORD, WILLIAM M.: ACTH and cortisone in advanced carcinoma of the digestive tract, 984-987
- Potassium arsenite, in leukemia, myeloid, 1000
- Precancerous lesions, portal cirrhosis as, 134
- Pregnancy, arrenoblastoma and, 60
sequential order in, 70
- carcinoma, intraepithelial, of cervix and, 1220
- cystosarcoma phyllodes and, 1291
- malignant melanoma and, 324-334
- Progesterone, effect on alkaline phosphatase, of cells, in vaginal smears, 159
- Propanediamine, *N,N'*-bis(2-chloroethyl)-*N,N'*-diethyl-2-chloro-1,3-, in mouse leukemias, 354
- N,N,N',N'*-tetrakis(2-hydroxyethyl)-1,3-, in mouse leukemias, 356
- Propanol, *N,N,N',N'*-tetrakis(2-chloroethyl)-2,3-diamino-1-, in mouse leukemias, 354
- Propanone, 1-chloro-3-ethoxy-, in mouse leukemias, 361
- Propylamine hydrochloride, α -phenyl- γ -(3,4-methylenedioxophenyl)-, in mouse leukemias, 361
- Prostate, cancer of, in Bantu, 1230
metastases of, to vertebrae, 610
untreated, survival with, 4
- carcinoma, of, metastases of, simulating cancer of breast, 303-311
orchietomy for, bilateral, evaluation of, 1087-1094
- transplantation of, heterologous, 1016
- cyst of, in childhood, 891
- effect of *HN2* on, after intra-arterial injection, 1349
- Prothrombin time, in leukemia, acute, 49
- Pseudoxanthoma peritonaei, 263
- Psychology, of patients, with cancer, 1159-1170
- Pteroylglutamic acid, effect on 2,6-diaminopurine, 187, 194
- PUND, EDGAR R., Jr., 261-264
- Purine, deoxyribonucleic acid, C¹⁴ incorporation into, roentgen-ray inhibition of, 363-366
- Pyrazole, 3-nitro-5-(3-pyridyl), in mouse leukemias, 361
- Pyridinium dichloride, 4-pyridyl-, in mouse leukemias, 361
- Pyrrolidine, *N*-(2-chloro- α -propyl)-, in mouse leukemias, 356
- Radiation, carcinosarcoma of uterus and, 814
effect on A and B nuclei, 157
preoperative, in cancer, of mouth and neck, results of, 99
roentgen-ray, effect of, on mucosa, of intestine, 1250
- Radiation necrosis, in cancer, of breast, chest-wall excision for, radical, 1273
- Radiation therapy, vs. neck dissection, 447
postoperative, in neck dissection, 488
- Radioactive phosphorus. See *P³²*
- Radioactive sulfate. See *S³⁵*
- Radioautography, in carcinoma, Hürthle-cell, of thyroid, 955
after *I¹³¹*, postmortem findings in, tissues tested, 937, 939, 941, 942, 943, 945, 948, 949
- Radium, in carcinoma, squamous-cell, of cervix, results of, 251-254
technique of, 1077
- in leukemia, myeloid, 1000
- RANDALL, H. T., Jr., 726-736
- Ranula, in childhood, 891
- RAPAPORT, SAMUEL I., Jr., 69, 177-183
- RASK-NIELSEN, RAGNA, and GORMSEN, HARALD: Spontaneous and induced plasma-cell neoplasia in a strain of mice, 387-397
- Rat, Curtis-Dunning, 345
fibrosarcoma of, transplanted, incidence of, age and, 1259-1262
- Long-Evans hooded, 611
- Sherman strain, 1259
- Slonaker, 345
- Sprague-Dawley Holtzman, 1031
- RAVIN, IVER S., Jr., 1176-1192
- RAWSON, RULON W., Jr., 936-951
- REAGAN, JAMES W.: The cytological recognition of carcinoma *in situ*, 255-260
- von Recklinghausen's disease, tumors in thorax and, 686
- Rectum, adenocarcinoma of, HN2 for, intra-arterial, 1352
pathological findings after, 1354, 1358
- cancer of, lymph-node dissection in, abdominopelvic, 1364-1366
untreated, survival with, 3
- carcinoma of, advanced, cortisone for, 986
mucoid, 597-609
- polyps of, in childhood, 891
- REID, ALLEN F., and RYAN, ELLSIE B.: Relationship of cancer to the phosphate loss of erythrocytes, 184-185
- JONES, S. EUGENE, and SORENSEN, JEANNETTE A.: Phosphate turnover rates in the red blood cells of normal and cancerous mice, 1028
- Remission, in leukemia, acute, criteria of, 44
spontaneous, in leukemia, acute, 44
- Respiratory tract, upper, carcinoma of, squamous, in Bantu, 1227
- Rest, branchial, in childhood, 891
- periocular, in childhood, 891
- thyroglossal-duct, in childhood, 891
- Reticuloma, leiomelanotic, in Bantu, 1227
- Retinoblastoma, in childhood, 896
pigmented, in anlagen tumors, 83
transplantation of, heterologous, 1016
- Retropertitoneum, tumors of, teratoid, morphogenesis of, 269
- Rhabdomyosarcoma, in Bantu, 1227
in childhood, 896
embryonal, folic acid antagonists for, results with, 564
- RHOADS, CORNELIUS P., Jr., 69, 549-569
- Rib, tumors of, metastatic, hematogenous, surgery for, 123
- Ricin, in mouse leukemias, 361
- RIOPELLE, J. L.: The nature and origin of the so-called true kidney hypernephroma, 789-802
- ROBBEN, JOHN O., Jr., 69, 98-109
- Roentgenogram, in Ewing's sarcoma, of bone formation, reactive, 839
- Roentgenotherapy, for carcinoma, granulomatous type of thymus, 1193, 1205
metastatic, of thyroid, 1180
of ovary, metabolism in, 506
of pancreas, metabolism in, 505
of vagina, 1077
- in desmoid, of abdominal wall, in children, 1055
- Hodgkin's disease, 510
- in leukemia, acute, survival and, 43
myeloid, 1000
- prophylactic, sarcoma, osteogenic, following, 1107-1112
plus radioactive cobalt, in carcinoma, squamous-cell, of cervix, results of, 251-254
to soft tissue, sarcoma, osteogenic, following, 1095-1104
- ROSENTHAL, M., and TRAUT, H. F.: The mucolytic action of papain for cell concentration in the diagnosis of gastric cancer, 147-149
- ROSS, JOSEPH F., Jr., 69, 1176-1192
- RUSCHE, CARL: Evaluation of bilateral orchietomy in the treatment of carcinoma of the prostate. I, 1087-1094
- RUTZKY, JULIUS, Jr., 69, 1043-1051
- RYAN, ELLSIE B., Jr., 69, 184-185; 1028
- S³⁵, metabolism of, anabolic, 198-201
sodium estrone sulfate labeled with, uptake of, by cancer, of breast, 537-548
- Sacrococcygeal tumors, teratoid, morphogenesis of, 269
- ST. JOHN, FORDYCE B., Jr., 69, 717-725
- Salivary glands, cancer of, in Bantu, 1226, 1228
tumors of, mixed, in Bantu, 1226
- Sarcoma, of animals, food-producing, 1114, 1118
of breast, cystosarcoma phyllodes and, 1330
Ewing's, bone formation in, reactive, 839-845
histogenesis of, 339
- Hodgkin's, transplantation of, heterologous, 1016
- mesenchymal, and carcinoma of uterus, 863-816
- mouse, Crocker 180, 367, 374, 551, 1132
- Sarcoma, mouse, cont'd
Ma387, 187
T241, 187, 376, 380
- from neurofibroma, in childhood, 896
osteogenic, antigens in, hererophile, 1040
in childhood, 896
- extrakeletal, histogenesis of, 1104
following irradiation, 1095
pathological findings in, 1098
- folic acid antagonists for, results with, 564
- Ridgway, inhibition of, by Russian Far East encephalitis virus, 375, 379
after roentgenotherapy, prophylactic, 1107-1112
pathological findings in, 1109
- rat, R39, effect of aminopterin on, 551
Walker carcinosarcoma, 256
- reticulum-cell, antibodies in, heterophile, 1039
- in Bantu, 1227
- in childhood, 896
- folic acid antagonists for, results with, 561, 563
- transplantation of, heterologous, 1016
- Roux, effect of aminopterin on, 551
- spindle-cell, folic acid antagonists for, results with, 564
- of mouse, 388
- pelvic, regression of, spontaneous, 6
- petroleum-products-induced, in mice, 1242
- 180, Crocker mouse, 367
effect of, aminopterin on, 551
St. Louis encephalitis virus on, 367-374
triazine derivatives on, 1132
- T241, inhibition of, by Russian Far East encephalitis virus, 376, 380
- SAWYER, KENNETH C., and PATE, CHARLES E.: Carcinoma of the stomach treated by subtotal gastric resection and partial hepatectomy. A case report, 968-971
- SCHARNAGEL, ISABEL M., Jr., 69, 324-334
- SCHLOSSER, JOSEPH V., Jr., 69, 319-323
- SCHNEIDER, B., Jr., 69, 1241-1249
- SCHOENBACH, EMANUEL B., Jr., 69, 619-625; 972-983; 1125-1139
- SCHOENEWALDT, ERWIN F., Jr., 69, 296-302
- Schwannian tissue, characteristics, nevi and, 18
- Schwannoma, of bone, histogenesis of, 340
carbonyl groups in, 589
malignant, in thorax, 669, 680
- SCOTT, KENNETH G., and STONE, ROBERT S.: Tumor-host studies. III. Alteration of thyroid, skin, blood, and tumor uptake of *I¹³¹*-tagged diiodotyrosine in rats by transplanted tumors, 345-352
- SEGALOFF, ALBERT; GORDON, DOUGLAS; HORWITT, BENJAMIN N.; SCHLOSSER, JOSEPH V., and MURISON, PAUL J.: Hormonal therapy in cancer of the breast. I. The effect of testosterone propionate therapy on clinical course and hormonal excretion, 319-323
- SELIGMAN, ARNOLD M., and ASHBEL, RIVKA: Histochimical demonstration of latent active carbonyl groups in normal and neoplastic nervous tissue, 579-596
- Seminoma, aminoafol for, result with, 564
of testis, roentgenotherapy for, sarcoma, osteogenic, following, 1095-1106; 1107-1112
- SEVERANCE, ALVIN O., Jr., 69, 817-822
- Sex, in fibromatosis, of fascia, plantar, 852
in leukemia, acute, 40
medical-care habits and, 223
statistics on. See Statistics
- SEVOLYT, JOHN F.; PAPANICOLAOU, GEORGE N., and COOPER, WILLIAM A.: Cytology in the diagnosis of gastric cancer, 286-295
- SHANDS, HARLEY C.; FINESINGER, JACOB E.; COBB, STANLEY, and ABRAMS, RUTH D.: Psychological mechanisms in patients with cancer, 1159-1170
- SHAY, HARRY; HARRIS, CHARLES, and GRUENSTEIN, MARGOT: Effect on male rats of the gastric instillation of methylcholanthrene in "heated" and "unheated" olive oil, 988-993
- Sheep, tumors of, 1115
economic loss from, annual, 1121
- SHIMKIN, MICHAEL B.: Duration of life in untreated cancer, 1-8

INDEX OF ORIGINAL ARTICLES

[1381]

- SHIMKIN, *cont'd*
- BIERMAN, HOWARD R.; LOW-BEER, B. V. A.; WHEELER, PRISCILLA M., and GOETZL, FRANZ R.: Blood histamine in myelogenous leukemia, 570-578
- SILBERSTEIN, HANNAH E., *et al.*, 537-548
- SIMMONDS, JAMES F., *et al.*, 994-998
- SINGH, BAWA P.: Primary carcinoma of the vagina, 1073-1082
- SISSON, JOHN H., *et al.*, 1176-1192
- Skin, cancer of, in Bantu, 1226, 1228
- carcinoma of, basal-cell, transplantation of, heterologous, 1016
- petroleum-products-induced, growth behavior of, 1238
- morphology of, 1238
- sites of, 1233
- of sweat glands, 521-536
- cyst of, dermoid, in childhood, 891
- mucous, in childhood, 891
- epithelioma of, basal-cell, metastasizing, 866-878
- benign, in childhood, 891
- fibroma of, in childhood, 891
- neuroma of, of Wagner-Meissner tactile corpuscles, 879-882
- osteoma of, in childhood, 891
- papilloma of, in childhood, 891
- petroleum-products-induced, sites of, in mice, 1233
- SKIPPER, HOWARD E., and MITCHELL, JACK H., JR.: Effect of roentgen-ray radiation on the biosynthesis of nucleic acids and nucleic acid purines, 363-366
- BELL, MARTELIA, and CHAPMAN, JUANITA B.: Partial reversal of the anti-leukemic action of folic acid antagonists by nucleic acids, 357-359
- Screening of a diverse series of candidate antileukemic agents, 360-362
- BENNETT, LEONARD L., JR., and LANGHAM, WRIGHT H.: Over-all tracer studies with C^{14} -labeled nitrogen mustard in normal and leukemic mice, 1025-1027
- jt. au.*, 398-400; 634-636
- Skull, retinal anlage tumor of, 78-85
- SMITH, ALBERT G., *et al.*, 846-856
- SMITH, FREDERICK M.: Enchondroma of the second metacarpal bone. Segmental resection of tumor and replacement by bone graft—a case report, 835-838
- SMITH, ROBERT A., *et al.*, 1337-1340
- SMITH, WILLIAM E., *et al.*, 1232-1245
- SNAPPER, I.; LIEBEN, F.; GREENSPAN, E., and SCHNEID, B.: Determination of stilbamidine and 2-hydroxystilbamidine deposited in parenchymatous organs and tumors, 1246-1249
- SNIPES, A. E., *et al.*, 367-374
- Sodium, azide, in mouse leukemias, 361
- cyanate, in mouse leukemias, 360
- estrone sulfate, uptake of, in cancer, of breast, 537
- ethylenedisulfonate, in mouse leukemias, 361
- fluoride, in mouse leukemias, 361
- SOMMER, GEORGE N. J., JR.: Resection of the bony thoracic wall for solitary hematogenous metastatic tumors, 120-130
- SORENSEN, JEANNETTE A., *et al.*, 1028
- South Africa, Bantu of, cancer among, 1224-1251
- SOUTHAM, CHESTER M.; GOLDSMITH, YVETTE, and BURCHENAL, JOSEPH H.: Heterophile antibodies and antigens in neoplastic diseases, 1036-1042
- CRAYER, LLOYD F.; DARGEON, HAROLD W., and BURCHENAL, JOSEPH H.: A study of the natural history of acute leukemia with special reference to the duration of the disease and the occurrence of remissions, 39-59
- jt. au.*, 549-569
- SPAIN, DAVID M., and PARSONNET, VICTOR: Multiple origin of minute bronchogenic carcinomas. Report of a case, 277-285
- SPITZ, SOPHIE, and HIGGINBOTHAM, NORMAN L.: Osteogenic sarcoma following prophylactic roentgen-ray therapy, 1107-1112
- Spleen, in leukemia, acute, 48
- Statistics, age, in adenocarcinoma, of cervix, 1066
- in carcinoma, in Bantu, 1225, 1228
- in carcinoma, granulomatous type, of thymus, 1202
- intraepithelial, of cervix, 1212
- of lung, 1171
- primary, 663
- of vagina, 1073
- in cervical metastases of head and neck cancer, 443
- of chronic cystic disease, of breast, "normal," 776
- in cystosarcoma phyllodes, 1287
- in leukemia, acute, 40
- myeloid, 1001
- in melanoma, malignant, pregnancy and, 327
- in metaplasia, of cervix, 1212
- death rate, in cancer, of stomach, in females, 917
- end result, in neck dissection, 495
- hospital, of frequency, of cancer, 416
- incidence, age in, 5
- arrenoblastoma of, 62
- of cancer, multiple, at necropsy, 7
- of second breast, 7
- of carcinoma, of cervix, 1221
- and cirrhosis, portal, 131
- Hürthle-cell, of thyroid, 953
- mucoid, of large bowel, 601
- primary, of vagina, 1073
- in carcinosarcoma, of lung, 919
- of uterus, 814
- of fibromatoses, of fascia, plantar, 846
- of mammary-duct ectasia, 749
- sex in, 5
- of tumors, of childhood and infancy, 890
- of medical-care habits, 221-225
- of metastases, in cancer, of tongue, 94, 450
- to neck, of cancer, of lip, 93, 449
- mortality, in leukemia, acute, 40
- on onset, date of, determination of, 2
- race, in adenocarcinoma, of cervix, 1066
- of cancer, in South African Bantu, 1224-1251
- in cystosarcoma phyllodes, 1287
- in leukemia, myeloid, 1002
- sex, in cancer, in Bantu, 1225
- in carcinoma, granulomatous type, of thymus, 1202
- primary, of lung, 664
- in leukemia, myeloid, 1000
- in metastases, cervical, in head and neck cancer, 443
- survival, in cancer, untreated, 1-8
- in carcinoma, granulomatous type, of thymus, 1209
- of lung, 1173
- mucoid, of rectum, 606
- primary, of lung, 666
- of prostate, after orchietomy, bilateral, 1090
- squamous-cell, of cervix, 251-254
- of stomach, 720
- in cystosarcoma phyllodes, of breast, 1223
- in leukemia, acute, age and sex in, 41
- cytological type and, 42
- treatment and, 42
- on folic acid-antagonist therapy, 565
- myeloid, 1004
- in neck dissection, 496
- STRINGER, PAUL E., and BENGTSON, JOHN S.: Research and economic aspects of tumors in food-producing animals, 1113-1124
- Sterility, arrenoblastoma and, 60
- Sternum, tumors of, metastatic, hematogenous, surgery for, 123
- STEVENSON, THOMAS W., JR., *et al.*, 846-856
- Stilbamidine, deposition of, determination of, 1246-1249
- 2-hydroxy-, deposition of, determination of, 1246-1249
- Stilbestrol, in cancer of prostate, cancer of male breast and, 303-311
- diethyl-, radioactive, excretion of, 296-302
- localization of, in tissue, 296-302
- Stilbines, effect on A and B nuclei, 157
- STODDARD, LELAND D., *et al.*, 1210-1223
- Stomach, cancer of, in Bantu, 1229
- death rate in, female, 917
- exfoliative cytology of, 286-295
- papain in technique of, 147-149
- Stomach, *cont'd*
- surgery for, technique of, more thorough, 957-967
- untreated, survival with, 3
- carcinoma of, 717-725
- advanced, ACTH for, 986
- cortisone for, 985, 986
- folic acid antagonists for, results with, 564
- gastrectomy, subtotal, and hepatectomy, partial, in, 968-971
- invasion by, sites of, 718
- recurrence of, 718
- regression of, spontaneous, 6
- sites of, 718
- in situ of, exfoliative-cytology detection of, 149
- spread of, routes of, 722
- surgery of, 719
- results of, 720
- symptoms of, 717
- transplantation of, heterologous, 1016
- tumor of, glomus, 726-736
- STONE, ROBERT S., *et al.*, 345-352
- Stout, Arthur Purdy, bibliography of, 661-662
- biography of, 659-661
- STOUT, ARTHUR PURDY, and COOLEY, STEPHEN G. E.: Carcinoma of sweat glands, 521-536
- STOUT, ARTHUR PURDY, Frontispiece, facing p. 659
- Streptococcus faecalis*, effect of folic acid antagonists on, 549
- SUGARBAKER, EVERETT D., and WILEY, HORACE M.: Intracranial-pressure studies incident to resection of the internal jugular veins, 242-250
- SUGIURA, KANEMATSU, *et al.*, 1232-1245
- Sulfide, *N,N,N',N'*-tetraakis(2-chloroethyl) diamino, in mouse leukemias, 356
- SUN, SHAO-CHIEN, *et al.*, 131-135
- SUNDERLAND, DOUGLAS A.; SMITH, WILLIAM E., and SUGIURA, KANEMATSU: The pathology and growth behavior of experimental tumors induced by certain petroleum products, 1232-1245
- jt. au.*, 957-967; 1286-1332
- Surgery, anesthesia in, pentothal sodium in, cancer, of mouth and neck, 100, 458
- in cancer, of breast, chest-wall excision in, radical, technique of, 1263
- radical, with internal mammary lymph-node chain dissection in continuity with, 1280
- of mouth, with radical neck dissection, operation for, composite, 98-109
- pull-through modification of, 105
- of stomach, technique of, more thorough, 957-967
- in carcinoma, Hürthle-cell, of thyroid, 954
- mucoid, of rectum, 604
- primary, of lung, 665
- of stomach, 719, 968
- operations for, analysis of, 958
- results of, 720
- of vagina, 1078
- of desmoma, of abdominal wall, in children, 1057, 1060, 1063
- of enchondroma of 2d metacarpal, 835-838
- of fibromatoses, of fascia, plantar, 854
- of melanoma, malignant, 325
- neck dissection, 98-109; 441-499
- bilateral, one-stage, 1337-1340
- pancreaticojejunostomy, telescopic, technique of, 226-232
- restorative, in tumors, of bone, 823-834
- of thoracic wall, for tumors of, metastatic, hematogenous, 120-130
- of tumors, of schwannian sheath, in thorax, 689
- of sympathetic nervous system, in thorax, 677
- Sweat glands, carcinoma of, 521-536
- pathological findings in, 522
- Swine, tumors of, 1115
- economic loss from, annual, 1121
- Sympathetic coblastoma, in childhood, 896, 902
- TAFT, RICHARD H., *et al.*, 150-153
- Tantalum-meal gauze, in closure, of chest wall, 1263
- TAYLOR, FREDERICK H., *et al.*, 669-691
- TEDESCHI, C. G., and BURKE, F. E.: Paratesticular interstitial-cell tumor, 312-318
- TEMPEREAU, CLINTON E., *et al.*, 177-183

- Tendon sheath tumor of, giant-cell, in childhood, 891
- Teratocarcinoma, of ovary, 267
- Teratoid, extragenital, morphogenesis of, 265-276
gonadal, morphogenesis of, 265-276
- Teratoma, benign, in childhood, 891, 892
malignant, in childhood, 897
sites of, in adults and children, 892
- Test(s), for cancer, diiodotyrosine uptake as, 352
erythrocyte phosphate loss as, 184
serological, in leukemia, acute, 49
- Testis, carcinoma of, in Bantu, 1226
folie acid antagonists for, results with, 564
- seminoma of, roentgenotherapy for, sarcoma osteogenic, following, 1095-1106; 1107-1112
- tumors of, interstitial-cell, bilateral, 817-822
pathological findings in, 315
malignant, extratesticular in origin, 312-318
teratoid, morphogenesis of, 265
- Testosterone, in adenocarcinoma, metastatic, of thyroid, 1176-1192
propionate, in cancer, of breast, 319-323
- Tetrahymena gleisi*, effect of, folie acid antagonists on, 350
- Thorax, tumors of, neurogenous, 669-691
wall of, resection for, tumors of, metastatic, hematogenous, 120-130
- Thrombocytopenia, in leukemia, acute, 48
- Thrombosis, venous, in carcinoma, of pancreas, 238
- Thymine, effect on 2,6-diaminopurine, 187, 194
- Thymus, carcinoma of, granulomatous type, 1193-1209
diagnosis of, 1205
pathological findings in, 1203
symptoms of, 1203
teratoid, morphogenesis of, 268
- Thyroid, adenocarcinoma of, metastatic, testosterone in, 1176-1192
adenoma of, benign, in childhood, 891
cancer of, metastases of, to vertebrae, 610
carcinoma of, in childhood, 896
following cystosarcoma phylloides, 1288
Hürthle-cell, 952-956
treatment of, 954
Im in, histological changes due to, 949
Im studies on, postmortem findings in, 936
metastatic, pathological findings in, 1182
morphological variant of, 697-707
stibamidine, 2-hydroxy-, deposition and, 1248
- cyst of, in childhood, 891
of rat, diiodotyrosine uptake by, effect of tumor on, 349
- tumors of, in Bantu, 1227
- Tissue, ^{35}S -labeled-glycine uptake by, 384
- ^{35}S fixed by, 198-201
- Tissue culture, chemotherapeutics tested on, 186-197
of glomus tumor, of stomach, 734
of myoblastoma, granular-cell, 857-865
- TITTERINGTON, JOHN B., *jt. su.*, 717-725
- Tongue, cancer of, metastases from, to lymph nodes, cervical, 99
to neck, 94, 450
- carcinoma of, transplantation of, heterologous, 1016
- muscles of, dissection of, in cancer, of mouth and neck, 101
- papilloma of, in childhood, 891
- Tracheostomy, in neck dissection, 101, 466
- Transfusion, in leukemia, acute, remissions of, 46
- Transplantation, heterologous, of tumors, human, 1013-1024
- TRAUT, H. F., *jt. su.*, 147-149
- Treatment, goals of, 1
- TREVES, NORMAN, and SUNDERLAND, DOUGLAS A.: Cystosarcoma phyllodes of the breast: a malignant and a benign tumor. A clinicopathological study of seventy-seven cases, 1286-1332
- Triazines. *See also* Melamine, Triethyl-enemelamine, Trimethylolmelamine derivatives of, antineoplastic properties of, 1125-1139
- s-Triazine, 2,4,6-triamino. *See* Melamine 2,4,6-triethylenimino. *See* Triethylenemelamine
- 2,4,6-trimethylolamino. *See* trimethylolmelamine
- Triethylenemelamine, effect of, on lymphosarcoma L-1, 1133
on sarcoma 180, 1134
inhibition of tissue O uptake by, 1136
pathological findings after, 1129
toxicity of, 1127
- TRIMBLE, JAMES R., *jt. su.*, 883-889
- Trimethylolmelamine, effect of, on lymphosarcoma L-1, 1132
on sarcoma 180, 1132
pathological findings after, 1127
toxicity of, 1126
- TRIMPL, HOWARD D., and BACON, HARRY E.: Mucoid carcinoma of the rectum, 597-609
- Tris(2-chloro-n-propyl)amine, in mouse leukemias, 354
- Trunk, as site of melanoma, malignant, in pregnancy, 327
- TRUNNELL, J. B., *jt. su.*, 931-951
- Tumors of animals, effect of aminopterin on, 551
- food-producing, 1113-1124
incidence of, 1115
- of brain, carbonyl groups in, 589
- cartilage-cell, histogenesis of, 335 of childhood, 890-906
- Ewing's, folie acid antagonists for, results with, 564
- giant-cell, of bone, histogenesis of, 339
- glomus, of bone, histogenesis of, 340
- of stomach, pathological findings in, 727
- hematopoietic, of bone, histogenesis of, 339
- of infancy, 890-906
- interstitial-cell, malignant, of testis, extratesticular in origin, 312-318
- testis, bilateral, 817-822
- liver, 3'-methyl-4-dimethylaminooazobenzene induced, ^{32}P uptake by, 411 in mediastinum, in leukemia, acute, 48
- mesenchymal, induced by methylcholangthrene in olive oil, 992
- metastatic, hematogenous, to thoracic wall, pathological findings in, 124, 126, 129
- methylcholangthrene-induced, effect of olive oil, heated, on, 989
- in rats, 988
- of thymus, 1193-1209
- mouse, inhibition by Russian Far East encephalitis virus, 375-382
- of nerve sheath, prognosis in, 679
- neurogenous, in thorax, 669-691
- diagnosis of, 669
- petroleum-product-induced, growth behavior of, 1232-1245
- pathology of, 1232-1245
- primary, of bone, classification of, 335-341
- of rat, diiodotyrosine uptake by, 345-352
- retinal anlage of, maxilla, 86-91
- pathological findings in, 87
- of skull, 78-85
- pathological findings in, 79
- of sympathetic nervous system, in thorax, prognosis in, 672
- teratoid. *See* Teratoid
- transplantation of, heterologous, 1015-1024
- Wilms', folie acid antagonists for, results with, 564
- Tumor-host studies, 345-352
- Tumor index, 1234
- TURNER, JOSEPH C., *jt. su.*, 401-409
- TWOMBLY, GRAY H., and SCHOENEWALDT, ERWIN F.: Tissue localization and excretion routes of radioactive diethylstilbestrol, 296-302
- Ultrasonic vibrations, pulsed, effects of, 342-344
- 10-Undecenoic acid, in mouse leukemias, 361
- URBAN, JEROME A.: Radical excision of the chest wall for mammary cancer, 1263-1285
- Urethane, with aminopterin, in leukemia, plasma-cell, 1043-1051
- effect of, on *Escherichia coli*, 398-400
- in leukemia, acute, survival and, 43
- myeloid, 1000
- Urethane, *cont'd*
in mouse leukemias, 360, 361
di-, in mouse leukemias, 360
- N,N-dimethyl-, in mouse leukemias, 361
- N-isobutylhexamethylenedi-, in mouse leukemias, 360
- methyleneedi-, in mouse leukemias, 361
- α -pyridyl-, in mouse leukemias, 360, 361
- 2-thiazolyl-, in mouse leukemias, 360
- Utah, familial breast cancer in, 515
- Uterus, cancer of, cells of, phosphatase of, alkaline, 159-167
diagnosis of, A and B nuclei in, 157
- carcinosarcoma of, 803-816
- fibromyoma of, electron-microscope study of, 171
- tumors of, in Bantu, 1226
- Uvea, melanoma of, malignant, metastatic, to rib, 123, 127
- Vagina, carcinoma of, etiology of, 1073
pathological findings in, 1075
primary, 1073-1082
- pathological findings in, 1075
- squamous, in Bantu, 1226
- VANDENBERG, HENRY J., JR., *jt. su.*, 957-967
- Veins, jugular, internal, resection of, intracranial pressure and, 242-250
vertebral, anatomy of, 613
in metastases, to spine, 610-618
- Virus, from adenocarcinoma EO 771, description of, 401-409
from C57 mice, description of, 401-409
ectromelia, relation to new virus, 407
Russian Far East encephalitis, inhibition of mouse tumors by, 375-382
- St. Louis encephalitis, effect on sarcoma 180, 367-374
- vaccinia, relation to new virus, 407
- Virus-like structures, in cancer, human, electron-microscope study of, 168
- Vocal cord, cyst of, epithelial, in childhood, 891
- papilloma of, in childhood, 891
- polyp of, in childhood, 891
- Vulva, carcinoma of, squamous, in Bantu, 1226
- Wagner-Meissner tactile corpuscles, neuroma of, 879-882
- WARD, GRANT E., and ROBBEN, JOHN O.: A composite operation for radical neck dissection and removal of cancer of the mouth, 98-109
- WATERHOUSE, CHRISTINE; PENNINGER, LEONARD D., and KEUTMANN, E. HENRY: Nitrogen exchange and caloric expenditure in patients with malignant neoplasms, 500-514
- WEBER, BANICE; CRAIG, BENJAMIN R., and FRIEDMAN, NATHAN B.: Cellular dynamics in the intestinal mucosa. Quantitative measurement of the effects of nitrogen mustard and irradiation on cellular division and differentiation, 1250-1258
- Weight loss, in cancer patients, 500-514
- WEISS, LEO, *jt. su.*, 1095-1106
- WEST, PHILIP M.; RAPAPORT, SAMUEL I., and TEMPEREAU, CLINTON E.: Enzymatic evaluation of therapeutic agents in cancer, 177-183
- WHEELER, PRISCILLA M., *jt. su.*, 570-578
- WHORTON, C. M., *jt. su.*, 1015-1024
- WILD, JOHN J., *jt. su.*, 342-344
- WILEY, HORACE M., *jt. su.*, 242-250
- WILLIAMS, R. B., *jt. su.*, 416-422
- WILLIAMS, ROGER D., *jt. su.*, 1333-1336
- Wilms' tumor, in childhood, 896
- folie acid antagonists for, results with, 564
- WILSON, ANNE YATES, *jt. su.*, 186-197
- WISE, ROBERT A., *jt. su.*, 737-744
- WISERMAN, RICHARD, (1621-1676), on cancer, 907-912
- WISEMAN, RICHARD, Frontispiece, facing p. 907
- WOOD, FRANCIS CARTER, Frontispiece, facing p. 441
- WOOLF, CHARLES M., and GARDNER, ELDON J.: The familial distribution of breast cancer in a Utah kindred, 515-520
- Xanthine, effect on 2,6-diaminopurine, 187, 193
- Xanthomatosis, in carcinoma, of duodenum, 737

INDEX OF SELECTED CANCER ABSTRACTS

- Abdominal wall, carcinoma of colon, perforating onto, 645
 ABEL, A. L., *jt. au.*, 1145
 ABELSON, H., 641
 ABRAHAMSON, L., 216
 ABRAHAMSON, M. L., *jt. au.*, 216
 ABRAMS, E. W., *jt. au.*, 213
 Acanthoma, aden-, mouse-mammary-tumor-agent induction of, pathology of, 218
 Acetylaminofluorene and I¹³¹, thyroid adenoma induced by, 426
 ACHEBACH, R. R., 1149
 Achlorhydria, gastric cancer and, 208
 ACKERMAN, G. A., 213
 ACKERMAN, L. V., *jt. au.*, 654, 655
 ACTH, in angiomyelomatosis, 426
 in cancer, 204, 426
 in carcinoma, 204, 426
 conference proceedings, book review, 640
 effect of, on coproporphyrin excretion, 210
 in Hodgkin's disease, 426
 in leukemia, 204, 425, 426
 in lymphomas, 425, 426
 in lymphosarcoma, 204, 426
 in melanoma, malignant, 426
 in myeloma, multiple, 426
 plasma-cell, 426
 in neuroblastoma, 426
 in sarcoma, 426
 ADELMAN, A., *jt. au.*, 439
 Adenocarcinoma of cervix, in infancy, 211
 of gallbladder, 209
 of lung, incidence of, 216, 217
 and metaplasia of epithelium of ureter, 1151
 mouse-mammary-tumor-agent induction of, pathology of, 218
 of testis, 435
 of uterus, of mouse, 20-methylcholanthrene induced, 219
 Adenoma, of adrenal, 647
 bronchial, of rat, tannic acid inducing, 1158
 nephrogenic, of bladder, 649
 of rectum, sigmoidoscopic findings on, 645
 Adenopterin, effect of, on Ak-4 leukemia, 439
 Adrenal, carcinoma of, 647
 pheochromocytoma of, 647
 ADSON, A. W., *jt. au.*, 1155
 Aging, cancer and, 638
 ALBRIGHT, E. C., 206
 ALFORD, T. C., *jt. au.*, 425
 D'ALLAINES, F., 431
 ALLBRITTON, F. P., Jr., *jt. au.*, 1145
 ALLEN, W. M., *jt. au.*, 206
 ALLENDE, I. L., 1148
 Amethopterin, effect of, on Ak-4 leukemia, 439
 inhibition of, by citrovorum factor, 656
 o-Aminooazotoluene, hemangiomyelomatosis induced by, 218
 sarcoma induced by, 218
 4-Amino-9,10-dimethylpteroylglutamic acid, effect of, on Ak-4 leukemia, 439
 5-Amino-7-hydroxy-1*H*-*s*-triazolo[*d*]pyrimidine, in Hodgkin's disease, 436
 4-Amino-9-methylpteroylglutamic acid, effect of, on Ak-4 leukemia, 439
 4-Amino-N⁴-methylpteroylglutamic acid, effect of, on Ak-4 leukemia, 439
 inhibition of, by citrovorum factor, 656
 AMORY, H. L., 639
 Anatomical regions, 427, 641
 ANDERSEN, P. B., *jt. au.*, 1145
 ANDERSON, H. E., *jt. au.*, 1153
 ANDERSON, N. E., 1153
 ANDERSON, R. E., *jt. au.*, 214
 ANDERVONT, H. B., 218
 Androgens. See also specific names of
 in cancer, of breast, advanced, 643
 Anemia, of cancer, CoCl₂ response of, 1041
 Angiocardiography, in cancer, of lung, operability and, 438
 Angiomyelomatosis, ACTH in, 426
 Angioma, of retina, 643
 associated with hemangioblastoma, cystic, of cerebellum, 437
 Angiosarcoma, 428
 Animal experimentation, 218, 656
 Anioppterin, effect of, on Ak-4 leukemia, 439
 Antrum, maxillary, cancer of, treatment of, 216
 Anus, carcinoma of, spread of, histology of, 430
 control of, colon and rectum sensibility and, 1146
 lymphoma of, benign and malignant, 1147
 polyposis of, lymphoid, 1147
 APPLEY, L. H., 1145
 ARIEL, I. M., *jt. au.*, 652
 ARLEV, N., *jt. au.*, 656
 ARMISTEAD, G. C., Jr., *jt. au.*, 1143
 ARMSTRONG, E. C., 218
 Arsenic, lung cancer and, 1042
 Asbestosis, lung cancer and, 1042
 ASHKENAZI, M., *jt. au.*, 1154
 Astroblastoma, of brain, pathology of, 214
 Astrocytoma, of brain, pathology of, 214
 Auer bodies, in leukemic cells, 213
 AVERY, G. W., *jt. au.*, 1146
 AVERY, G. S., Jr., Ed.-in-Chief, 637
 AVER, J. P., *jt. au.*, 426
 AVER, J. E., *jt. au.*, 211
 AVER, W. B., 211
 Azobenzene, β -dimethylamino-, hepatoma induced by, in rat, 220
 BABCOCK, G. M., *jt. au.*, 656
 BACON, H. E., 1146
 BAETJER, A. M., 424
 BAGGENSTOSSE, A. H., *jt. au.*, 646
 BAKER, C. F., *jt. au.*, 428
 BAKER, J. W., 208
 BARTLETT, M. K., *jt. au.*, 430
 BATEMAN, J., *jt. au.*, 425
 BAUER, J., *jt. au.*, 638
 BECKER, M. M., *jt. au.*, 656
 BEELER, T. T., *jt. au.*, 216
 1,2-Benzanthracene, 9,10-methyl, skin tumors of mouse induced by, 440
 BERG, B. N., 1141
 BERLIN, R. B., 1142
 BERNEIKE, R. R., *jt. au.*, 1151
 BERNSTEIN, J. L., *jt. au.*, 1143
 BERNSTEIN, M., *jt. au.*, 210
 BERNSTEIN, T., *jt. au.*, 436
 BERRY, G. N., *jt. au.*, 425
 BERSON, S., *jt. au.*, 436
 BERTOLI, F., *jt. au.*, 655
 Beryllium, sarcoma, osteogenic, induced by, 439
 Betatron, clinical experience with, 1143
 BIERMAN, H. R., *jt. au.*, 217, 1144
 BIGELOW, R., *jt. au.*, 217
 Biology, progress of, book review, 637
 Biopsy, coning, in cancer, early, of cervix, 1150
 Bis(2-chloroethyl)sulfide, tumors of lung, of mice, induced by, 1157
 Bladder, 212, 649, 1151
 adenoma of, nephrogenic, 649
 carcinoma of, infiltrating, radiation of, interstitial, 651
 cystectomy in, total, 649, 650
 irradiation of, intracavitary, with Na²⁴, 212
 papilloma of, 1151
 carcinoma and, relation of, 649
 transitional-cell, biology of, 649
 surgery of, radical, 650
 tumors of, adenomatoid, types of, 649
 Bleeding, postmenopausal, theca-cell tumor of ovary and, 212
 BLEICH, A. R., 435
 BLOCK, M., *jt. au.*, 436
 Blood, in bone-marrow metastases, 637
 effect of HN2, regional, on, 639
 effect of ultrasonic vibrations on, 217
 estrogen of, in carcinoma, of breast, 428
 histamine of, in leukemia, 214
 I¹³¹ distribution in, 432
 Blood pressure, during pulmonary resection, 439
 Blood vessels, tumors of. See specific names of
 BLOOM, H. J. G., 641, 1144
 Bone, cartilaginous tumors of, 654
 metastases to, anemia of cancer and, 1041
 radium in, microscopic and radioautographic studies of, 438
 sarcoma of, reticulum-cell, primary, 654
 tumors of, diagnosis of, with Ga⁷⁵, 1144
 giant-cell, of tendon sheath involving, 1152
 Bone marrow, chemistry of, 1152
 effect of HN2, regional, on, 639
 in leukemia, chemistry of, 1152
 metastases to, 637
 BONSER, G. M., 219; *jt. au.*, 218
 Book reviews:
 ALLENDE, INÉS L. C. DE, & ORFAS,
 OSCAR: *Cytology of the Human Vagina*, 1148
 AVERY, GEORGE S., Jr., Ed.-in-Chief: *Survey of Biological Progress*, Vol. I, 637
 CANTRELL, SIMON T.: *Radiation Therapy in the Management of Cancer of the Uterine Cervix*, 211
 DOCK, WILLIAM, & SNAPPER, I., Eds.: *Advances in Internal Medicine*, Vol. IV, 424
 DYER, HELEN M.: *An Index of Tumor Chemotherapy; a Tabulated Compilation of Data from the Literature on Clinical and Experimental Investigations*, 424
 JONES, RUTH McCLEUNG, Ed.: *McClung's Handbook of Microscopical Techniques for Workers in Animal and Plant Tissues*, by Thirty-Five Authors, 3d ed., 202
 LIPSCHUTZ, ALEXANDER: *Steroid Hormones and Tumors; Tumorigenic and Antitumorigenic Actions of Steroid Hormones and the Steroid Homeostasis; Experimental Aspects*, 658
 LOW-BEER, BERTRAM V. A.: *The Clinical Use of Radioactive Isotopes*, 640
 MOTE, JOHN R., Ed.: *Proceedings of the First Clinical ACTH Conference*, 640
 NICHOLSON, G. W. DE P.: *Studies on Tumor Formation*, 423
 PARKER, RAYMOND C.: *Methods of Tissue Culture*, 2d ed., 217
 PATERSON, RALSTON; TOD, MARGARET, & RUSSELL, MARION, Compilers: *The Results of Radium and X-Ray Therapy in Malignant Disease; Being the Third Statistical Report from the Radium Institute, the Christie Hospital and Holt Radium Institute, Manchester; Years 1940 to 1944 Inclusive Assessed at 5 Years and 1934 to 1938 Assessed at 10 Years*, 1143
 PORTMANN, U. V., Ed.: *Clinical Therapeutic Radiology*, 640
 POTTER, VAN R.: *Enzymes, Growth and Cancer*, 423
 REESE, ALGERNON B.: *Tumors of the Eye*, 1153
 BOURNE, H. G., Jr., 424
 BOWDEN, L., 427
 Brain, astrocytoma of, pathology of, 214
 hypernephroma of, metastatic, 1135
 myoblastoma of, granular-cell, metastatic, 652
 oligodendrogloma of, pathology of, 214, 215
 tumors of, diiodofluorescein-I¹³¹ in diagnosis of, 1154
 HN2 intra-arterially for, 425
 prognosis of, 214, 215
 radioautography of, with P³², 206
 ultrasonics in diagnosis of, 1154
 Branchioma, malignant, 641
 Breast, 207, 427, 641, 1144
 cancer of, advanced, hormones for, 642
 electron microscopy of human milk in, 427
 esterase of, estrogen therapy and, 1157
 estrogen effect on serum glucuronidase in, 642
 glucuronidase in, estrogen therapy and, 1157
 heredity in, 440
 hormones for, age and, 643
 metastatic, hormones for, 642
 methylandrostenediol for, 204
 pleural carcinosis in, regression of, spontaneous, 1144
 postmastectomy swollen arms in, 642
 surgery for, noncontusive, 207
 carcinoma of, advanced, androgens in, 201
 estronase of blood in, 428
 inflammatory, 641
 metastases of, to bone marrow, 637
 milk factor in, human, 207

- Breast, carcinoma of. *Cont'd*
 prognosis in, 641, 1144
 radiotherapy in, principles of, 1144
 roentgenotherapy of, 205
 roentgen-ray effect on, 428
 male, cancer of, bilateral, stilbestrol and, 213
 metastases to, from cancer of prostate, 213
 mouse, mammary-tumor agent of, roentgen-ray detection of, 218
 tumors of, methylcholanthrene induced, in mammary-tumor-agent-free mice, 218
 spontaneous, in mammary-tumor-agent-free mice, 219
 papilloma, benign intraabdominal, 642
- BRENDLE, H., 213
- Brenner tumor, of ovary, 212
- BRICK, I. B., *jt. su.*, 639
- BRINES, O. A., *jt. su.*, 1142
- BROADBENT, T. R., 646
- Bronchus(i), 216
 carcinoma of, prognosis of, 1157
- BROQUIST, H. P., *jt. su.*, 656
- BROWN, C. H., *jt. su.*, 209
- BRYANT, H. C., JR., *jt. su.*, 429
- BUDDINGTON, W. T., *jt. su.*, 649
- BULLOUGH, W. S., 655
- BUNGE, R. G., 435
- BURCHENAL, J. H., 439, 656, 657; *jt. su.*, 439, 1143
- BURKE, L., *jt. su.*, 1150
- Butadiene dioxide, effect of, on chromosomes, 440
- CAHAN, W. G., *jt. su.*, 437
- CAHILL, G. F., 647
- Calculus, of ureter, adenocarcinoma and, 1151
- CAMERON, W. R., *jt. su.*, 202
- Cancer, anemia in, bone metastases and, 1041
 CoCl_2 for, 1041
 asymptomatic, in cancer detection centers, 202
 bronchogenic, 641
 course of, natural, 1040
 detection, in industry, pilot study of, 1041
 in rural practice, 1041
 diagnosis of. *See also* special methods of, as Cytology, exfoliative
 delay in, 203
 errors in, 1042
 enzymes and growth, book review, 423
 general, 202, 423, 637, 1140
 of genital tract, female, β -glucuronidase of, 1148
 human, biological predeterminism in, 1040
 industrial, 202, 424, 1141
 in chromate workers, 424
 of lung, environmental, 1041
 lymph-node involvement in, detection of, technique of, 1042
 management of, errors in, 1042
 N metabolism in, 220
 pelvic, radioactive colloidal gold for, 206
 surgery of, radical, 647, 650, 1145
 treatment of, delay in, 203
 types of, cancer detection and, 1041
 mortality statistics for, 1040
- Cancer detection centers, appraisal of, 202
- CANTRELL, S. T., 211
- Carbon black, cancer from, 202
- Carcinogen(s), chromium as, 424
 environmental, lung cancer and, 1041
 mustard as, 1157
 tannic acid as, 1158
- Carcinogenesis, experimental, mechanism of, 656
 in leiomyoma, of prostate, 1152
 malignant tumor development in vitro, 656
 mitosis and, 655
 polarographic study in, 220
- Carcinoma. *See also* Cancer; sites of, e. g.,
 Basal-cell, etc.
 ACTH for, 204, 426
 adenomatous polyps and, 1146
 basal-cell, metastatic, 1153
 multiple, 1153
 recurrent, 1153
 bronchiolar, terminal, of lung, 438
 bronchogenic, cytology of, exfoliative, 655
 grading of, value of, 217
 incidence of, age, 216
 types of, incidence of, 216, 217
 C3H breast, inhibitors for, 1157
 cortisone for, 204, 426
- Carcinoma, *cont'd*
 epidermoid, of lung, incidence of, 216
 of frog, roentgen-ray effects on, cytology of, 1158
 inflammatory, of breast, 641
 of intestines, spread of, histology of, 430
 intrapithelial. *See* Carcinoma, *in situ*
 limitis-plastica type, of colon, 644
 metastases of. *See* Metastases
 preinvasive. *See* Carcinoma, *in situ*
 serum in, polysaccharide content of, 440
 in situ, cervix, cervical epithelium of pregnancy and, 1150
 exfoliative cytology of, 1149
 P^{32} uptake by, 1150
 in pregnancy, 1149
 small-cell, of lung, incidence of, 216
 squamous-cell, of gallbladder, 209
 of lung, incidence of, 216, 217
 of mouse, 3, 4, 5, 6-dibenzcarbazole induced, 218
 of uterus, of mouse, 20-methylcholanthrene induced, 219
 triethylenemelamine for, 1143
 effect on, 426
 undifferentiated, of lung, incidence of, 217
 Walker rat, 256, 220
 effect of cytotoxic agents on chromosomes of, 440
- Carcinosis, pleural, in carcinoma, of breast, regression of, spontaneous, 1144
- Cardia, cancer of, roentgenotherapy of, rotational, 1145
 mortality in, operative, 1145
- Cardiovascular system, 428, 643. *See also* specific organs
- CARROW, L. A., 1149
- CARRUTHERS, C., 220
- CASTRO, A. F., 1146
- CATTERL, R. B., 647
- Cell(s). *See also* Cytology, Mitosis, Nucleus, etc.
 in Hodgkin's disease, morphology of, 217
 leukemic, Auer bodies in, 213
 plasma in multiple myeloma, urethane effect on, 215
 roentgen-ray effect on, in carcinoma, of breast, 428
 of frog, transplanted to eye, 1158
 survival of, after freezing, with or without desiccation, 657, 658
 of testis, lipids of, 436
 age and, 436
- Cerebellum, hemangioblastoma of, cystic, 437
- Cervix, 211, 432, 1149
 adenocarcinoma of, in infancy, 211
 cancer of, diagnosis of, glycogen chemistry in, 211
 early, coning biopsy in, 1150
 P^{32} uptake by, 1150
 radiotherapy of, book review, 211
 testosterone for, 1149
 carcinoma of, in Jewish women, 1150
 radiological response of, 432
 in situ, cervical epithelium of pregnancy and, 1150
 exfoliative cytology of, 1149
 epithelium of, squamous, in pregnancy, 1150
 in pregnancy, epithelium of, 1149
 squamocolumnar junction of, in pregnancy, 1150
- CHASE, W. E., *jt. su.*, 213
- CHEESEMAN, E. A., 1140
- Chemistry, 220, 658
- Chemotherapy, 204. *See also* specific chemicals, specific tumors
 of Ak-4 leukemia, 657
 of cancer, index of, book review, 424
 intra-arterial, 425
 See also HN2 therapy, regional, of leukemia, mouse, folic acid derivatives for, 439
 regional, technique of, 425
 triethylenemelamine in, 1143
- CHERRY, L. S., *jt. su.*, 1144
- Cholangioma, of rat, tannic acid inducing, 1158
- Cholelithiasis, carcinoma of gallbladder and, 209
- Chondroma, of ribs and sternum, 654
- Chondrosarcoma, of ribs and sternum, 654
- Choriocarcinoma, 433, 434
- Choriocarcinoma, diagnosis of, 433, 434
 of testis, 651
- CHRIS, S. M., 641
- CHRISTIANSON, H. W., 645
- CHRISTIE, A. C., 644
- Chromate, lung cancer from, 424
- Chromosome(s). *See also* Cytology
 effects of cytotoxic agents on, 440
- CHURG, J., 437
- Ciliary body, tumors of, epithelial, 653
- Circumcision, penile carcinoma and, 435
- Citrovorum factor, amethopterin inhibition by, 656
- CLAGETT, O. T., *jt. su.*, 216, 432, 654
- CLAWORTHY, H. W., JR., *jt. su.*, 1152
- Coal products, lung cancer and, 1042
- Cobaltous chloride, in anemia, of cancer, 1041
- CORE, F. O., *jt. su.*, 644
- COHEN, S. L., 642, 1157
- COLBY, F. H., *jt. su.*, 650
- COLEY, B. L., 654
- Coley's toxins, in sarcoma, reticulum-cell, of bone, 654
- Colitis, ulcerative, chronic, carcinoma of colon and, 209
- COLLINS, V. P., 216
- COLMER, M. L., *jt. su.*, 1142
- Colon, 208, 430, 644, 1145
 cancer of, heredity in, 440
 rectosigmoid anastomosis, technique of, 208
 carcinoma of, abdominal wall involved by, 645
 in situ-plastica type, 644
 ulcerative colitis, chronic, in etiology of, 208
 polyps of, adenomatous, classification of, 1146
 histopathology of, 1146
 roentgenography of, tannic acid enema in, 644
 segment of, as gastric reservoir, after gastrectomy, 1145
 sensitivity of, anal continence and, 1146
- COLSKY, J., *jt. su.*, 1144
- COMAN, D. R., *jt. su.*, 219
- Compound A, effect of on tumors, 220
- Connective tissue, radiation reaction and, 205
 roentgen-ray effect on, in carcinoma, of breast, 428
- CONTE, A. J., *jt. su.*, 203
- COOK, J. W., 1157
- COOPER, J. P., *jt. su.*, 650
- COOPER, W. A., *jt. su.*, 430
- Coproporphyrin excretion, effect of, ACTH on, 210
 roentgen rays on, 210
- CORBETT, D. G., 213
- Cortisone, in cancer, 204, 426
 in carcinoma, 204, 426
 in Hodgkin's disease, 436
 in leukemia, 204, 425, 426
 in lymphomas, 425, 426
 in lymphosarcoma, 204, 426
 in melanoma, malignant, 426
 in myeloma, multiple, 426
 plasma-cell, 426
 in neuroblastoma, 426
 in sarcoma, 426
- CRAIG, W. MCK., *jt. su.*, 215, 1155
- CRAYER, L. P., *jt. su.*, 1143
- CREMER, M. A., *jt. su.*, 439, 657
- CRILE, G., JR., 210, 647, 1148
- CROMER, J. K., *jt. su.*, 639
- Cyst, epithelial, of heart, 643
- Cystadenoma lymphomatous, papillary, histogenesis of, 429
- Cystectomy, in cancer, of bladder, 649, 656
- Cytology. *See also* Cells, Mitosis, Nucleus, etc.
 exfoliative, in carcinoma, bronchogenic, 655
 of prostate, 213
 in situ, of cervix, 1149
 of rectum, technique of washings in, 1148
 of stomach, abrasive balloon in, 430
 in tumors, alveolar-cell, of lung, 654
 roentgen-ray effect, in carcinoma, of breast, 428
 of frog, intracocularly transplanted, 1158
 tissue-culture methods, book review, 217
 of tumors, giant-cell, of tendon-sheath origin, 1152
 of vaginal fluid, book review, 1148
- DAFF, M. E., 638
- DALAND, E. M., 642
- DANFORTH, D. N., 1150
- DAVIS, L., 214, 1154
- DAY, P. L., 220
- DEDDISH, M. R., *jt. su.*, 1145

- 11-Dihydrocorticosterone acetate, in tumors, 220
- Delay, in diagnosis and treatment, 203
- DEMING, C. L., 649
- DEMUYLDER, E., *jt. au.*, 1150
- DERINGER, M. K., *jt. au.*, 219
- Dermatofibrosarcoma protuberans, 1153
- Diagnosis, 204, 1142
of cancer, errors in, 1042
delay in, in cancer, of stomach, 643
diiodofluorescein-¹³¹ in, 1154
by exfoliative cytology, 213, 430, 654, 655, 1148, 1149
- Ga⁷⁵ in, 1144
- iodoacetate index in, 204
- sedimentation index in, 204
- ultrasonic in, 1154
- 2,6-Diaminopurine, effect of, on Ak-4 leukemia, 439
- 3,4,5,6-Dibenzazepine, tumors induced by, in mouse forestomach, 218
- Diet, effect of, on mitosis, 655
- 2,4-Diethylenimino-6-amino-3-triazine, effect of, on Ak-4 leukemia, 657
- DIETZ, A. A., 1152
- Digestive tract, 208, 429, 643, 1145. *See also* specific regions of
- Diiodofluorescein, radioactive, in tumors, of central nervous system, diagnosis of, 1154
- DILLON, E. S., *jt. au.*, 215
- DILLON, M. L., *jt. au.*, 215
- DILWORTH, E. E., 433
- DINNING, J. S., *jt. au.*, 220
- DMOCHOWSKI, L., 657; *jt. au.*, 657, 658
- DOCK, W., Ed., 424
- DOCKERTY, M. B., *jt. au.*, 212, 436, 644, 645, 1147
- DONAICH, I., 426
- DOTTER, C. T., 438
- DUCHESNE, E. M., *jt. au.*, 656
- DUDLEY, H. C., *jt. au.*, 1144
- DUFFY, B. J. Jr., *jt. au.*, 432
- DUFFY, E., *jt. au.*, 1157
- DUKES, C. E., 430
- DUNGAL, N., 438
- DUNN, T. B., *jt. au.*, 218, 219
- DUNNING, E. J., 1146
- DYER, H. M., 424
- Ear, external, melanoma of, malignant, 653
- EARLE, W. R., *jt. au.*, 656
- EARNST, F., III, 215
- ECKHOF, N. L., 1153
- EHRLICH, D., *jt. au.*, 641
- EHRLICH, H., *jt. au.*, 641
- EISA, E. A., *jt. au.*, 655
- Electron microscopy, of human milk, from breast cancer patients, 427
- ELIAS, C., *jt. au.*, 210
- ELIEL, L. P., *jt. au.*, 425
- Emphysema, mediastinal, complicating neck surgery, 427
- Empyema, after pneumonectomy, management of, 438
- Endocrine organs, 210, 432, 647, 1148. *See also* specific organs
¹³¹I distribution in, 432
- Endometrial, cancer of, testosterone for, 1149
carcinoma of, recurrence of, 433
treatment of, 433
and tumors of ovary, feminizing, 1150
- England and Wales, statistics of, 638, 644, 1157
- Environment, lung cancer and, 1041
- Enzymes, cancer, and growth, book review, 423
- Ependymoma, oligodendrogloma and, 215
- Epidemiology, carbon-black industry, cancer in, 202
- Epithelioma, basal-cell, after radiodermatitis, 1153
of skin, roentgenotherapy of, 205
- Epithelium, of cervix, in pregnancy, 1149
carcinoma in situ and, 1150
squamous, of cervix, in pregnancy, 1150
of ureter, metaplasia of, adenocarcinoma and, 1150
- Epoxides, effect of, on chromosomes, 440
- Erythrocytes, effect of ultrasonic pulses on, 217
- Esophagoduodenostomy, end to end, in gastrectomy, 208
- Esophagus, 1145
cancer of, roentgenotherapy of, rotational, 1145
carcinoma of, mortality in, operative, 1145
- Esterase, in cancer, of breast, estrogen therapy and, 1157
- Estrogen, effect on serum glucuronidase, in cancer, of breast, 642
in cancer, of breast, esterase and, 1157
glucuronidase and, 1157
- tumors of ovary producing, 1151
- 428
- Ethylenimines, effect of, on chromosomes, 440. *See also* names of specific compounds
- Etiology, 203, 638
- EVERETT, M. R., *jt. au.*, 440
- EWING, M. R., 431
- Eye, 653, 1155
ciliary body, tumors of, epithelial, 653
in intracranial tumors, 1155
retinoblastoma of, 653
tumors of, book review, 1155
- Female genital tract, 211, 432, 647, 1148.
See also specific organs
- Fibroblasts, mouse, sarcomatous transformation of, in vitro, 656
- Fibroma, of heart, 643
of stomach, 208
- Fibrosarcoma. *See also* Dermatofibrosarcoma
of soft tissues, malignancy of, 436
survival in, 437
- synovial, 1153
- FIELD, N. S., *jt. au.*, 428
- PIELDS, T., *jt. au.*, 1154
- PILDERS, C. E., *jt. au.*, 643
- Filum terminale, gliomas of, intradural, 1155
- FINN, W. F., 433
- FISHMAN, W. H., 217; *jt. au.*, 204
- FLETCHER, A. G., Jr., 1152
- Fluid, extracellular, ¹³¹I distribution in, 432
- Folic acid antagonists, in leukemia, acute, hyperpigmentation after, 652
derivatives of, effect of, on Ak-4 leukemia, 439
- FRANTZ, V. K., 210
- FRENCH, L. A., 1154
- FRIEDMAN, N. B., 649
- FRIEDMANN, E., 214
- Fulguration of papilloma, of bladder, 1151
- Gallbladder, 209
carcinoma of, 209
tumors of, Krukenberg, 648
- GALTAN, D. A. G., 207
- Ganglioneuroma, intrathoracic, 437
- GARCIA LOPEZ, G., *jt. au.*, 204
- GARDNER, E. J., 440
- GARLOCK, J. H., 645
- Gastrectomy, colon segment as gastric reservoir after, 1145
total, in carcinoma, early, 430
technique in, 208
- Gastrointestinal tract, neoplasms of, malignant, glucuronidase activity in, 217
morphology of, 217
polyposis of, familial, stomach in, 430
- GAVISER, D., *jt. au.*, 208
- Genetics, 440
of tumors, of breast, in mice, 218, 219
- Genital tract, female, 211, 432, 647, 1148
cancer of, testosterone for, 1149
 β -glucuronidase of, 1148
- Genitourinary tract, 212, 435, 648, 1151.
See also specific organs
- metastases to, 648
tumors of, secondary, 648
- GERHARDT, P. R., *jt. au.*, 203
- GESSLER, A. Jr., *jt. au.*, 427
- GHORMLEY, R. K., *jt. au.*, 436
- GIBBON, J. H., Jr., 1145
- GILLIGAN, D. R., 204
- GINZBURG, L., *jt. au.*, 645
- GIUS, J. A., 427
- GLECKLER, W. J., 209
- Glioma, intradural, of filum terminale, 1155
- Globulin(s), in multiple myeloma, urethane effect on, 215
- Gliomus, aorticopulmonary, tumor of, 429
bronchial, tumors of, morphology of, 429
- Glucuronidase, in cancer, of breast, estrogen therapy and, 1157
in neoplasms, malignant, of gastrointestinal tract, 217
- β -Glucuronidase, in cancer, of prostate, 213
in female genital cancer, 1148
of serum, estrogen effect on, in cancer, of breast, 642
- Glycogen, cytochemistry of, in cancer, of cervix, diagnosis of, 211
- GOODWIN, J. T., 437; *jt. au.*, 432
- Gold, radioactive colloidal, in cancer, pelvic, 206
- GOLDBERGER, M. A., *jt. au.*, 1150
- GOLDSMITH, Y., *jt. au.*, 1158
- GOLDSTEIN, H., *jt. au.*, 203
- GOLIGHER, J. C., 1146
- GOOD, C. A., 216; *jt. au.*, 432
- GORDON, A. J., *jt. au.*, 437
- GRAHAM, E. A., *jt. au.*, 203
- GRAVES, R. C., 649
- GRAY, C. P., 435
- GREENE, H. S. N., 656
- GREENE, R. R., *jt. au.*, 1149
- GREENSPAN, E. M., *jt. au.*, 1144
- GRIER, D. H., *jt. au.*, 427
- GRIER, R. S., *jt. au.*, 439
- GRIFFITH, E. R., 654; *jt. au.*, 216
- GROESBECK, H. P., *jt. au.*, 654
- GROSS, L., 427, 657
- GROSS, R. E., 1152
- Growth, beryllium and, 439
cancer and enzymes, book review, 423
potentials of, in induced skin tumors of mouse, 440
- Guanazole, in Hodgkin's disease, 436
- GUERNSEY, D. E., 1147
- GUSBERG, S. B., 1150
- HAAGENSEN, C. D., 642
- HAAS, L. L., *jt. au.*, 1143
- HAINES, M., 648
- HALSTED, J. A., 430
- Hamartoma, of heart, 643
- HAMBERGER, C. A., *jt. au.*, 653
- HAMER, D., 1157
- HAMPTON, A. O., *jt. au.*, 644
- HANDLER, F. P., *jt. au.*, 638
- HANSEN, I., *jt. au.*, 1147
- HARRIS, E. J., *jt. au.*, 430
- HARVEY, R. A., 1143
- HAUNZ, E. A., 646
- HAZARD, J. B., *jt. au.*, 1146
- Head, tumors of, HN2 intra-arterially for, 425
- Heart, tumors of, incidence of, 643
metastatic, 643
- HEATH, J. C., 206
- HECKEL, G., *jt. au.*, 211
- HELLSTEN, H., *jt. au.*, 1157
- HELWIG, E. B., 1147
- Hemangioblastoma, cystic, of cerebellum, 437
- Hemangioidothelioma, mouse, o-aminooxytoluene induced, 218
- Hematopoietic system, 213, 436, 651, 1152
See also specific organs
- HENDERSON, D. ST. C. L., *jt. au.*, 1151
- HENDERSON, J. W., *jt. au.*, 1155
- HENDRY, J. A., *jt. au.*, 440
- Hepatoma, of Negro, African, *Senecio alkalo*ids and, 1157
 ρ -dimethylaminoazobenzene induced, 220
tannic acid inducing, 1158
- Heredity, of cancer, of breast, 440
of lower digestive tract, 440
familial polyposis in, 430
in leukemia, mouse, 657
- HERTIG, A. T., *jt. au.*, 1149
- HESTON, W. E., 219, 1157
- Hexamethylene diethylenurea, effect of, on Ak-4 leukemia, 657
- HIGGINBOTHAM, N. L., *jt. au.*, 654
- HILL, R., *jt. au.*, 432
- HILL, R. F., *jt. au.*, 427
- HIRST, A. Jr., *jt. au.*, 651
- Histamine, of blood, in leukemia, 214
- HN2, effect of, on serum complement, 1158
intra-arterial, 425
in leukemia, 436
in lymphomas, 436
- P^{32} partition and, 1144
regional, effects of, hematological, 639
in mycosis fungoides, 639
tumors of lung, in mice, induced by, 1157
- HOAGLAND, M. B., 439
- HOCK, E. P., 213
- Hodgkin's disease, ACTH for, 426
cortisone for, 426
guanazole for, 436
- HN2 for P^{32} and, 1144
regional, 639
immune reactions in, 651
triethylene melamine for, 1143
- HOECKER, F. E., 638
- HOFFMANN, G. T., 651
- HOLINGER, P. H., 654
- HOLMAN, C. W., *jt. au.*, 438
- HOMBURGER, F., 204; *jt. au.*, 1141

- HOOD, M. B., *jt. su.*, 439
- HOON, J. R., *jt. su.*, 208
- Hormone(s). *See also* names of specific hormones
adrenocorticotropic. *See* ACTH
cancer of prostate and, 213
male, in cancer, of genital tract, female, 1149
steroid, tumors and, book review, 658
- HORN, R. C., Jr., *jt. su.*, 1152
- HORNBUCHEL, L. A., *jt. su.*, 433
- HORNE, H. W., Jr., 207
- HORRAX, G., 437; *jt. su.*, 437
- HOTTER, H. A., 217
- HUBBARD, T. B., *jt. su.*, 208
- HUEPER, W. C., 1141
- HUGHES, B. S. R., *jt. su.*, 1146
- HUGHES, I. W., *jt. su.*, 1157
- HUNT, A. H., *jt. su.*, 1145
- HUNT, H. B., 432
- HUSEVY, R. A., *jt. su.*, 642, 1157
- Hydatidiform mole, choriocarcinoma and, 433, 434
diagnosis of, 433, 434
- Hypernephroma, metastatic, to brain, 1155
- Hypochlorhydria, gastric cancer and, 208
- I¹³¹, in cancer, of thyroid, metastatic, 210
in carcinoma, of thyroid, dosage of, 427
distribution of, in body, 432
labeline diiodofluorescein, in tumors, of central nervous system, diagnosis of, 1154
thyroid adenoma induced by, 426
uptake of, by thyroid, in leukemia, 206
- Iceland, carcinoma of lung in, 438
- Ileum, carcinoma of, 644
- Immune reactions, in Hodgkin's disease, 651
- Industry, cancer detection in, pilot study of, 1041
- Infancy, adenocarcinoma of cervix in, 211
- INGALLS, T. H., 202
- INGRAM, J. M., Jr., 1150
- Intestines, carcinoma of, spread of, histology of, 430
injury to, by 1000-kv. roentgenotherapy, 639
- small, 644
- Iodine, radioactive. *See* I¹³¹
- Ireland, Northern, cancer in, mortality statistics for, 1040
- IREVY, N. S., *jt. su.*, 216
- Irradiation, 205
- Isotopes, radioactive, 206, 426, 640, 1144.
See also names and symbols of specific isotopes
- IVERSEN, S., 656
- IVINS, J. C., 436
- JACKSON, E., 655
- JACKSON, I., *jt. su.*, 648
- JACOB, N. H., Jr., 1151
- JACOBSON, A. S., *jt. su.*, 436
- JACOBSON, L. O., *jt. su.*, 436
- JANES, J. M., *jt. su.*, 1153
- JARETZKI, A., III, *jt. su.*, 210
- ejenun, carcinoma of, 644
- JENKINS, R., *jt. su.*, 217
- Jewish, carcinoma of cervix in, 1150
- JOHNS, V. J., Jr., 651
- JOHNSON, W., *jt. su.*, 1149
- JOHNSTON, K. C., *jt. su.*, 654
- JOHNSTON, S. F., *jt. su.*, 439, 657
- JOHNSTON, R. E., *jt. su.*, 1149
- OLLES, B., 205
- ONDARIL, W. H., 212
- ONES, C., 209
- ONES, H. W., Jr., 202
- ONES, R. MCC., Ed., 202
- ONES, T. E., *jt. su.*, 1146
- ONSSON, U., 637
- JUDD, E. S., Jr., 208
- UKES, T. H., *jt. su.*, 656
- junction, squamocolumnar, of cervix, in pregnancy, 1150
- KARNOFSKY, D. A., 1143
- KARSH, J., 648
- KASDON, S. C., *jt. su.*, 204
- KAUFMAN, J. J., 1151
- KEMLER, J. I., 1156
- KENNAWAY, E. L., 638; *jt. su.*, 638
- KENT, E. M., 438
- KERMAN, H. D., *jt. su.*, 646
- KERNOHAN, J. W., *jt. su.*, 215, 1155
- KERR, W. S., Jr., 650
- 17-Ketosteroids, in cancer, of prostate, 213
- KIRSCHNER, L., *jt. su.*, 432
- KLINGER, M. E., 648
- KLOPP, C. T., 425, 429; *jt. su.*, 639
- KOCH, H. J., Jr., 210
- KOLLER, P. C., *jt. su.*, 205
- KONVALER, B. E., *jt. su.*, 217
- KORPASZY, B., 1158
- KOSINSKI, A. A., *jt. su.*, 213
- KRAMER, S., 1156
- KREBS, C., 1145
- KUHLENBECK, H., *jt. su.*, 649
- KUSHIDA, M. N., *jt. su.*, 439
- LAHEY, F. H., 430
- LARSEN, W. G., *jt. su.*, 210
- Larynx, carcinoma of, thyrotomy for, bilateral, 1156
- LASNITZKI, I., *jt. su.*, 658
- LASZLO, D., 1142
- LAUFMAN, H., 644
- LAUGHIN, J. S., *jt. su.*, 1143
- LAURENS, J., *jt. su.*, 1146
- LAWRENCE, H., 215
- LAWRENCE, V. S., *jt. su.*, 214
- LAWTON, S. E., 643
- LEACH, J. E., *jt. su.*, 203
- LEADBETTER, W. F., 650; *jt. su.*, 647
- LEE, C. M., Jr., 1145
- LEES, J. C., *jt. su.*, 433
- Leiomyoma, of prostate, 1151
of stomach, 208
- LEROY, G. V., *jt. su.*, 1154
- Leukemia, ACTH for, 425
- Leukemia, acute, ACTH for, 204
cortisone for, 204
folic acid antagonists for, hyperpigmentation after, 652
- Ak-4, effect of, hexamethylenediethylurea on, 657
- 2,4,6-triethylbenzimidazo-triazine on, 657
transmission of, by foster nursing, 657
- blood in, histamine of, 214
- blood cells of, effect of ultrasonic vibrations on, 217
- bone marrow in, chemistry of, 1152
- chronic, HN2 therapy of, regional, 639
- cortisone for, 425
- HN2 for, 436
- lymphatic, P1534, compound A in, 220
- methylcholanthrene induced, in mammary-tumor-agent-free mice, 218
- mouse, amethopterin effect on, citrovorum-factor inhibition by, 656
- chemotherapy of, with folic acid derivatives, 439
- "spontaneous," in mice, foster-nursed, 657
- thyroid in, I¹³¹ uptake by, 206
- triethylenemelamine for, 426, 1143
- urine in, chemistry of, 214
- Leukemic reactions, histamine of blood in, 214
- Leukocytes, effect of ultrasonic vibrations on, 217
- Leukocytoes, histamine of blood in, 214
- LEVILLAIN, W. D., *jt. su.*, 219
- LEVIN, M. L., 203
- LIKELY, G. D., *jt. su.*, 656
- Lip, cancer of, metastases in, cervical, surgery in, 206
neck dissection in, 429
- Lipoma, of heart, 643
of stomach, 208
- LIPSCHUTZ, A., 658
- LIQUER-MILWARD, J., *jt. su.*, 206
- Liver, cirrhosis of, prostate carcinoma and, 651
metastases to, from carcinoma, of ileum and jejunum, 644
- myeloma of, multiple, 438
- tumors in, in rats, after *Senecio jacobaea* alkaloids, 1157
- tannic acid inducing, 1158
- LLOYD-DAVIES, O. V., *jt. su.*, 431
- Lobectomy, pulmonary hemodynamics during, 439
- LOEB, R. A., 1148
- LOPEZ TOCA, R., *jt. su.*, 204
- LORINCE, A., 1148
- LOW-BEER, B. V. A., 640; *jt. su.*, 1144
- LUCKE, B., 1158
- LUMB, G., 428
- Lung, 216, 438
cancer of, chromium causing, 424
environmental, 1041
operability of, angiography and, 438
tobacco smoking and, 203, 438, 1042
- carcinoma of. *See also* Carcinoma, bronchogenic
alveolar, bilateral, 216
- Lymph node(s), cancer of, detection of, technique of, 1042
- cervical, metastases to, surgery in, 206
dissection of, in surgery, radical, of bladder, 650
- localization of, yttrium, radioactive, colloidal, 207
- myeloma of, multiple, 437
- Lymphangiosarcoma, 428
- Lymphedema, postmastectomy, incidence of, 642
- Lymphoepithelioma, of nasopharynx, 1156
- Lymphomas, ACTH for, 425
cortisone for, 425
- HN2 for, 436
- Lymphosarcoma, ACTH for, 204
- 6C3HED, compound A effect on, 220
coproporphyrin excretion in, radiation effect on, 210
- cortisone for, 204
- HN2 for, 436
- ³P and, 1144
- of nasopharynx, 1157
- triethylenemelamine for, 426, 1143
- LYNCH, K. M., Jr., 1146
- MCCARTHY, W. D., 428
- MCCARTY, K. S., *jt. su.*, 427
- MCCUTCHEON, M., *jt. su.*, 219
- MACDONALD, I., 1140
- MACDONALD, J. R., *jt. su.*, 216, 432, 435, 654, 1153
- MACDONALD, M., *jt. su.*, 203
- MACFARLANE, K. T., 212
- MACFEE, W. P., 207
- McGOOGAN, L. S., *jt. su.*, 1148
- MACKINNON, J., *jt. su.*, 210
- MCWIRTER, R., 1144
- MARINELLI, L. D., 427
- MARRIAN, D. H., *jt. su.*, 214
- MARSHALL, S. P., 208; *jt. su.*, 430
- MARSHALL, V. P., 650
- MARTIN, H., 641
- MARTIN, J., *jt. su.*, 214, 1154
- MASOURIDES, S. P., 1144
- MAU, W., *jt. su.*, 1151
- MAVO, C. W., *jt. su.*, 644
- MAYS, C. R., *jt. su.*, 433
- Medicine, internal, advances in, book review, 424
- MEKKER, I. A., Jr., *jt. su.*, 1152
- MEIGS, J. V., *jt. su.*, 1150
- MEISSNER, W. A., *jt. su.*, 208
- Melanoma, triethylenemelamine. *See* Triethylenemelamine trimethylol, effect of, on chromosomes, 440
- Melanoma, malignant, ACTH for, 426
cortisone for, 426
of ear, external, 653
- metastases of, to bone marrow, 637
- transplantation of, heterologous, 656
- MELICOW, M. M., *jt. su.*, 647
- MENDELSOHN, H. J., 439
- MERREN, D. D., 651
- MERRIAM, G. R., Jr., 653
- MERRILL, J. G., 645
- Metabolism, 220, 658
nitrogen, in cancer, 220
- Metastasis. *See also* Recurrence
to bone, anemia of cancer and, 1041
in cancer, of prostate, 213
- in cancer, advanced, of rectum, 1145
of breast, surgery and, noncontusive, 207
of lung, 216, 217
- of stomach, total gastrectomy and, 430
of thyroid, 210
- ¹³¹I in, 210
- of carcinoma, basal-cell, 1153
of gallbladder, 209
- papillary, of thyroid, to neck, 1148
- of thyroid, 647
- cervical, of lip cancer, surgery in, 206
- neck dissection in, 429
- factors affecting, 219
- to liver, from carcinoma, of ileum and jejunum, 644
- of melanoma, malignant, of ear, external, 653
- of myoblastoma, granular-cell, in brain 652

- Metastasis, cont'd
 to ovary, 648
 to retinoblastoma, 653
 of sarcoma, synovial, 1153
 Methionine, protection against β -dimethylaminoazobenzene, in rat, 220
 Methylandrostenediol, in cancer of breast, metastatic, 204
 Methylbis(2-chloroethyl)amine, tumors, of lung, of mice, induced by, 1157
 Methylcholanthrene, effect on mammary-tumor-agent-free mice, 218
 skin tumors of mouse induced by, 440
 20-Methylcholanthrene, tumors, uterine, of mouse, induced by, 219
 Methylolamides, effect of, on chromosomes, 440
 Methyltestosterone, in carcinoma of breast, advanced, 207
 Methylthiouacil and I¹³¹, thyroid adenoma induced by, 426
 MEYERS, R., *et al.*, 652
 Microscopy, technique, book review, 202
 MIDDLETON, W. S., *et al.*, 206
 MIDER, G. B., *et al.*, 220
 MILANES, F., *et al.*, 204
 Milk, human, electron microscopy of, in cancer of breast, 427
 mouse, leukemia transmission by, 657
 Milk factor, in cancer of breast, human, 207
 MILLARD, A., *et al.*, 657, 658
 MILLER, D. B., *et al.*, 431
 MILLER, N. F., 1149
 MILLIS, C. A., 203
 Mitosis, carcinogenesis and, 655
 effect of diet on, 655
 MODLIN, J., 429
 MONRO, R. S., 429
 MORFITT, H. M., *et al.*, 641
 MORGAN, C. N., *et al.*, 431
 MORGAN, J. W., *et al.*, 1145
 MORRIS, R. S., Jr., *et al.*, 426
 MORROW, P. L., 217
 MORTON, J. J., *et al.*, 220
 MOSONYI, M., *et al.*, 1158
 MOTE, J. R., Ed., 640
 Mouse, forestomach of, tumors of, 3, 4, 5, 6-dibenzcarbazole induced, 218
 mammary tumor agent of, roentgen-ray detection of, 218
 mammary-tumor-agent-free, methylcholanthrene effect on, 218
 papillomatosis, 3, 4, 5, 6-dibenzcarbazole induced, 218
 strains of, A, 1158
 Akm, 656, 657
 C, 218
 C57, 219, 657
 CBA, 218, 219
 C3H, 218, 219, 656, 657, 1157
 C3Hb, 219
 dba, 218
 Strong A, 218
 tumors of, α -aminoazotoluene induced, 218
 breast, spontaneous, in mammary-tumor-agent-free mice, 219
 malignant, vinylcyclohexene dioxide induced, 440
 skin, methylcholanthrene induced, 440
 transplantable, metastases of, factors affecting, 219
 uterine, 20-methylcholanthrene induced, 219
 Mouth, cancer of, tobacco smoking and, 203
 MULRY, W. C., 1144
 MURPHY, W. T., 1152
 Musculoskeletal system, 436, 652, 1152.
See also specific organs
 Mustards, tumors, of lung, of mice, induced by, 1157
 Mutagens, mustards as, 1158
 Myasthenia gravis, thymus tumors and, 432
 Mycosis fungoides, HN2 therapy of, regional, 639
 triethylenemelamine for, 426, 1143
 Myeloma, multiple, ACHT for, 426
 without bone lesions, 1156
 cortisone for, 426
 extramedullary, 437
 radioactive isotopes in, 215
 urethane for
 plasma-cell, ACHT for, 426
 cortisone for, 426
 Myoblastoma, granular-cell, metastatic, intracranial, 652
 Myoma(s), sarcoma, of uterus and, 212
 Myxoma, of heart, 643
 Myosarcoma, of heart, 643
- Na²⁴, bladder irradiation with, 212
 NARDIELLO, V. A., Jr., *et al.*, 437
 Nasopharynx, tumors of, malignant, 1156
 NEAL, D., *et al.*, 1154
 Neck, 427, 641
 dissection of, in cancer, of lip, lower, 429
 in lymph-node metastases, 206
 prophylactic, 429
 radical, bilateral, with jugular-vein excision, venous adaptation after, 427
 surgery of, emphysema, mediastinal, complicating, 427
 pneumothorax complicating, 427
 tumors of, HN2 intra-arterially for, 425
 Negro, African, hepatoma of, *Senecio alka-roids* and, 1157
 Nervous system, 214, 437, 653, 1154. *See also* specific organs
 Neurofibroma, encapsulated, intrathoracic, 437
 Neuroblastoma, ACHT for, 426
 cortisone for, 426
 metastases of, to bone marrow, 637
 Neurofibroma, of stomach, 208
 NICHOLSON, G. W., DE P., 423
 Nickel, lung cancer and, 1042
 NIELSEN, J., *et al.*, 1145
 Nitrogen, sources of, in tumors, 220
 Nitrogen mustard. *See* HN2
 NOHRMAN, B. A., 1144
 NOLAN, J. P., *et al.*, 206
 NOVAK, E., 433; *et al.*, 1150
 NOVAK, F., *et al.*, 654
 NOVELLI, J., *et al.*, 1148
 Nucleus, deoxyribonucleoprotein of, Zn⁶⁵ uptake of, 206
 liver-cell, Zn⁶⁵ uptake by, 206
- Occupation, lung cancer and, 1041
 O'CONNOR, M. H., *et al.*, 216
 ODELL, L. D., *et al.*, 1148
 OLcott, C. T., 219
 Oligodendroglioma, of brain, pathology of, 214, 215
 ependymoma and, 215
 O'NEAL, L. W., 654
 Oral cavity, 429
 Orectoectomy, in tumors, malignant, of testis, 651
 Ofrias, O., *et al.*, 1148
 Ossseous system, 215, 437, 654, 1156. *See also* Bone
 Osteochondroma, of ribs and sternum, 654
 OTTOMAN, R. E., *et al.*, 217
 Ovary, 212, 647
 thecoma of, carcinoma of endometrium and, 1151
 tumors of, Brenner, 212
 pathology of, 212
 granulosa-cell, 648
 carcinoma of endometrium and, 1150
 secondary, 648
 theca-cell, postmenopausal bleeding and, 212
 OYSTER, J. M., *et al.*, 208
- P³², in myeloma, multiple, 215
 partition of, HN2 effect on, 1144
 in tumors, of brain, radioautography by, 206
 uptake of, by cancer, of cervix, 1150
 PACK, G. T., 652, 1153; *et al.*, 428
 PADBERG, F., *et al.*, 214
 Pancreas, acini of, obstruction of, by carcinoma, effects of, 646
 carcinoma of, 646
 metastatic, 216
 roentgenography of, 646
 sites of, 646
 ducts of, obstruction of, by carcinoma, effects of, 646
 PANICO, F. G., 430
 PANICOLAOU, G. N., *et al.*, 430
 Papilloma, benign intraductal, of breast, 642
 of bladder, 1151
 transplantation of, heterologous, 649
 cauliflower-like, of stomach, 1145
 transitional-cell, of bladder, biology of, 649
 Papillomatosis, of mouse, 3, 4, 5, 6-dibenz-carbazole induced, 218
 Paraganglion, intrathoracic, 437
 PARK, W. W., 433
 PARKER, R. C., 217
 Parotid, embryology of, 429
 papillary cystadenoma lymphomatous of, histogenesis of, 429
 tumors of, mixed, subtotal parotidectomy for, 429
 PARSONS, L., 647
- PASSEY, R. D., 657, 658
 PATERSON, R., 1143
 Pathogenesis, 203, 638
 of choriocarcinoma, 433, 434
 PAYNE, L. D., *et al.*, 220
 PEACOCK, W., *et al.*, 432
 PEALE, A. R., *et al.*, 1146
 PEARCE, M. L., *et al.*, 214
 PEARSON, O. H., 425
 Pelvis. *See* Cancer, pelvic; Surgery, radi- cal; *also* specific sites
 Penis, carcinoma of, prophylaxis of, 435
 PERLMUTTER, I., 437
 PERUTZ, M. F., *et al.*, 214
 PETROHELOS, M. A., 1155
 PEPPIER, D. B., 431
 Pheochromocytoma, of adrenal, 647
 PHILLIPS, J. S., *et al.*, 642
 Phosphatase(s), in cancer, of prostate, 213
 Pigmentation, after folic acid antagonists, in leukemia, acute, 652
 pineal body, tumors of, treatment of, 437
 Pituitary, irradiation of, in carcinoma, of prostate, 1152
 Plasmacytoma, of nasopharynx, 1157
 Pneumonectomy, in carcinoma, of lung, 1157
 empymema after, management of, 438
 pulmonary hemodynamics during, 439
 Pneumothorax, complicating neck surgery, 427
 Polarography, in carcinogenesis, study of, 220
 Polyposis, of colon, carcinoma of colon and, 209
 familial, of gastrointestinal tract, stomach in, 430
 Polyps, adenomatous, carcinoma and, 1146
 of colon and rectum, classification of, 1146
 histopathology of, 1146
 gastric, gastric cancer and, 208
 malignant, 208
 Polysaccharide, globulin fractions of, in carcinoma, 440
 POOL, J. L., *et al.*, 216, 437
 POPPEN, J. L., *et al.*, 437
 PORTER, M. M., *et al.*, 203
 PORTMANN, U. V., Ed., 640
 POTTER, V. P., 423
 PRICHARD, R. W., 643
 PRIDGEN, J. E., 644
 PRIGOT, A., *et al.*, 426
 Prognosis, in cancer, of rectum, below peri-tonal reflection, 431
 in carcinoma, of breast, 641, 1144
 of bronchus, 1157
 of pancreas, 646
 of rectum, site of lesions and, 1147
 natural course of disease and, 1040
 Prostate, 213, 651, 1151
 cancer of, hormone relationships in, 213
 lipids of, age and, 436
 in Leydig cells, 436
 in Sertoli cells, 436
 carcinoma of, exfoliative cytology in, 213
 liver cirrhosis and, 651
 metastases of, to bone marrow, 637
 to breast, 213
 pituitary irradiation in, 1152
 after subtotal prostatectomy, 213
 leiomyoma of, 1151
 Prostatectomy, subtotal, carcinoma of prostate following, 213
 Proteinuria, Bence Jones, in multiple myeloma, urethane in, 215
 Pyroglutamic acid, 4-amino-9,10-dime-thyl-, in Ak-4 leukemia, 439
 4-amino-9-methyl-, in Ak-4 leukemia, 439
 4-amino-N¹⁰-methyl-, in Ak-4 leukemia, 439
 PYGOTT, F., 646
 Pyrimidine, 5-amino-7-hydroxy-1H-p-triazolo-[4,3-*d*]-, in Hodgkin's disease, 436
 Race, Jewish, carcinoma in, of cervix, 1150
 Negro, African, hepatoma of, *Senecio alkalo-oids* and, 1157
 Radiation, of genital tract, female, β -glucuronidase and, 1148
 interstitial, in carcinoma, infiltrating, of bladder, 651
 intracavitary, of bladder, with Na²⁴, 212
 theca-cell tumors of ovary and, 212
 Radiation reaction, connective-tissue role in, pathology of, 203
 Radioactivity, lung cancer and, 1042
 Radioautography, with P³², in tumors, of brain, 206
 of radium, in bone, determination of, 638

- Radiodermatitis, epithelioma, basal-cell, of skin after,** 1153
Radiogallium, in tumors, of bone, diagnosis of, 1144
Radiotherapy. *See also Radium; Roentgenotherapy*
 in carcinoma, of breast, principles of, 1144
 of lung, 1157
 by I¹³¹, dosage of, 427
Radium, in bone, microscopic and radioautographic studies of, 638
 in cancer, of antrum, maxillary, 216
 cervix carcinoma response to, 432
 in papilloma, malignant, of bladder, 1151
Radium therapy, book review, 640, 1143
 in cancer, of cervix, book review, 211
Radon in papilloma, malignant, of bladder, 1151
RAMSTRÖM, S., 1157
RANDALL, L. M., *jl. su.*, 212
 **Rat, hepatoma of, β -dimethylaminoazobenzene induced, 220
 sarcoma of, vinylcyclohexene induced, 440
 tumors of, Wilms' 219
RAVID, J. M., *jl. su.*, 434
REBORDEDO, A., *jl. su.*, 204
Rectosigmoid, anastomosis, in cancer, of colon technique of, 208
 carcinoma of, resection of, anterior, appraisal of, 645
Rectum, 208, 431, 645, 1145
 cancer of, advanced, treatment of, 1145
 cancer detection center sigmoidoscopic findings in, 645
 heredity in, 440
 below peritoneal reflection, survival after, 431
 carcinoma of, prognosis in, site of lesions and, 1147
 resection of, abdominoperitoneal, survival factors in, 1146
 anterior, appraisal of, 645
 spread of, histology of, 430
 surgery of, conservative, 431
 conservative, end results of, 431
 cytology of, exfoliative, technique of washing in, 1148
 lymphoma of, benign and malignant, 1147
 polyoma of adenomatous, classification of, 1146
 histopathology of, 1146
 lymphoid, 1147
 sensitivity of, anal continence and, 1146
 tumors of, villous, 431
Recurrence. *See also Metastasis*
 of carcinoma, of endometrium, 433
REESE, A. B., 1155
REIMAN, M. S., *jl. su.*, 217
REINGOLD, I. M., 217
Research, 217, 439, 655, 1157
Respiratory tract, 216, 438, 654, 1156. *See also specific organs*
Retina, angioma of, hemangioblastoma, cystic, of cerebellum and, 437
Retinoblastoma, 653
Rhabdomyoma, of heart, 643
RHOADS, C. P., *jl. su.*, 1143
Rib, cartilaginous tumors of, 654
RICHMOND, J. B., *jl. su.*, 652
RICHMOND, V., *jl. su.*, 440
ROBINS, G. F., 203
ROBINSON, B., *jl. su.*, 439
ROBSON, J. M., *jl. su.*, 219
Rodent ulcer, roentgenotherapy of, 205
Roentgen rays, effects of, on carcinoma, of frog, intracocularly transplanted, 1158
mouse-mammary-tumor-agent detection by, 218
Roentgenography, in carcinoma, of pancreas, 646
 of colon, tannic acid enema in, 644
Roentgenotherapy. *See also Radiotherapy with betatron, clinical experience with,* 1143
 book review, 640, 1143
 of cancer, of cervix, book review, 211
 of rectum, advanced, 1146
 in carcinoma, of breast, 428
 cervix carcinoma response to, 432
 in epithelioma, of skin, 205
 1000-kv, injury to intestines by, 639
 of pinealoma, 437
 of pituitary, in carcinoma, of prostate, 1152
 radiation reaction in, connective-tissue role in, 205
 rotational, in cancer, of cardia, 1145
 of esophagus, 1145
 in sarcoma, reticulum-cell, of bone, 654
 of uterus, 212**
- Roentgenotherapy, cont'd**
 techniques in, evaluation of, 205
 in testis teratoma, 436
 in tumors, of brain, 214
 malignant, of nasopharynx, 1157
 of testis, 651
ROFFE, P. G., *jl. su.*, 638
ROSE, F. L., 440
ROTHWELL, J. T., *jl. su.*, 204
ROTINO, A., *jl. su.*, 651
RUNDLES, R. W., 215; *jl. su.*, 637
RUSSELL, M., *jl. su.*, 1143
RUSSELL, P. W., 209
- Salivary glands, 429**
SAMBROOK, D. K., 205
SANFORD, K. K., 656
SAPHIR, O., *jl. su.*, 644
Sarcoma. *See also specific names of*
Ewing's, ACTH for, 426
of heart, 643
Kaposi's, 428
mouse, o-aminobenzoquinone induced, 218
inhibitors for, 1157
survival after freezing, with or without desiccation, 657, 658
transmission of, cellular, by frozen-dried tissue, 657, 658
osteogenic, beryllium induced, 439
of pleura, surgery of, 1157
rat, vinylcyclohexene dioxide induced, 440
reticulum-cell, of nasopharynx, 1156
primary, of bone, 654
spindle-cell, of nasopharynx, 1157
of stomach, 208
statistics on, 208
synovial, 652, 1153
triethylenemelamine for, 426
of uterus, 212
SAUNDERS, J. B. DE C. M., *jl. su.*, 1145
SAXTON, J. A., JR., 638
SCAPIRE, J., *jl. su.*, 1148
SCHILLING, E. L., *jl. su.*, 656
SCHLUMBERGER, H. G., *jl. su.*, 1158
SCHOENBACH, E. B., 1144
SCHOENTHAL, R., *jl. su.*, 1157
SCHWEIZER, O., *jl. su.*, 427
SCHWENK, E., *jl. su.*, 428
SCHWIDDE, J. T., 652
SCHWIPPERT, H., *jl. su.*, 1152
SCOTT, W. W., *jl. su.*, 213, 436
SEIDMAN, L., *jl. su.*, 643
SELVERSTONE, B., *jl. su.*, 206
Seminoma of testis, 651
Secoecia, alkaloids of, and hepatoma, of Negro, African, 1157
jacobsae, alkaloids of, tumors of liver of rats after, 1157
Serum, in carcinoma, of polysaccharide content of, 440
 complement of, HN2 effect on, 1158
 proteins of, in multiple myeloma, urethane effect on, 215
SEYBOLD, W. D., 432
SHELTON, E., *jl. su.*, 656
SHEN, S. C., 1141
SHERMAN, C. L., 206
SHERMAN, C. D., JR., 220
SHESTER, C. L., *jl. su.*, 440
SHESTER, M. R., 440
SHIMKIN, M. B., *jl. su.*, 1144
SHIBUKI, P., 440
SIDDALL, A. C., 1141
SIEGLER, S. L., 434
Silicosis, lung cancer and, 1042
SILVER, G. B., *jl. su.*, 1142
SINCLAIR, W. K., *jl. su.*, 212
Sinuses, 216
Skin, 653, 1153
 carcinoma of, epidermoid, spindle-cell, 653
 epithelioma of, basal-cell, after radio-dermatotherapy, 1153
 roentgenotherapy of, 205
Smear, vaginal. *See Cytology, exfoliative*
SMITH, G. G., 213
SMITH, R. S., *jl. su.*, 1146
SMITH, T. R., *jl. su.*, 436
SNAPPER, I. ED., *jl. su.*, 424
Soft tissue, fibrosarcoma of, 436
SOUTHAM, C. M., 1158; *jl. su.*, 1143
SPARLING, D. W., 212
SPIES, T. D., 204
Spinal cord, tumors of, intramedullary, 1155
Spine, myeloma of, multiple, 437
SPURR, C. L., 436
SR⁴⁰, for myeloma, multiple, 215
STACEY, M., *jl. su.*, 1157
STANDARD, S., *jl. su.*, 1142
STATE, D., 208
- Statistics, of cancer detection centers,** 202
 of cancer detection, in rural practice, 1041
 of carbon-black industry, 202
 of lung, tobacco smoking and, 203
 of mouth, tobacco smoking and, 203
 delay in diagnosis and treatment, 203
 in General Register Office publications, 638
incidence, of adenoma, of rectum, 645
 age and, 638
 in testis teratoma, 435
 of carcinoma of cervix, in Jewish women, 1150
 in England and Wales, 638
 of stomach, 643
 in England and Wales, 644
 of carcinoma bronchogenic, 216, 217
 of gallbladder, 209
 of ileum, 644
 of jejunum, 644
 of penis, 435
 of prostate and liver cirrhosis, 651
 of choriocarcinoma, 434
 of postmastectomy swollen arms, 642
 of sarcoma, of stomach, 208
 of uterus, 212
 of tumors, of heart, 643
 mortality of, Northern Ireland, 1040
 operative, in carcinoma, of cardia, 1145
 of esophagus, 1145
 survival, in cancer, advanced, of rectum, 1146
 of rectum, below peritoneal resection, 431
 of stomach, 644
 in England and Wales, 644
 in carcinoma, of breast, treated by roentgen rays, 1144
 of lung, in England and Wales, 1157
 of rectum, after abdominoperitoneal resection of, 1146
 of choriocarcinoma, 433, 434
 after cystectomy, total, 649, 650
 in fibrosarcoma of soft tissue, 437
 in melanoma, malignant, of ear, external, 633
 in sarcoma, of stomach, 208
 synovial, 652
 in testis teratoma, 436
 in tumors, of brain, 214, 215
STEIN, R. J., *jl. su.*, 435
STEINBERG, B., *jl. su.*, 1152
STEINBERG, D., 206
STEINBERG, I., *jl. su.*, 438
STEPHENS, F. E., *jl. su.*, 440
Stilbestrol, in cancer, of breast, advanced, 642
STOCK, C. C., *jl. su.*, 439, 657
STOCKS, P., 644
STOLL, B. A., 642
Stomach, 208, 430, 643, 1145
 cancer of, 643
 cytology of, exfoliative, abrasive balloon in, 430
 diagnosis of, early, 208
 in England and Wales, 644
 gastrectomy for, technique in, 208
 total, 430
 papilloma of, cauliflower-like, 1145
 in polyposis, familial, of gastrointestinal tract, 430
 sarcoma of, statistics on, 208
 tumors of, benign, 208
 Krukenberg, 648
 villous, 1145
STONE, R. E., *jl. su.*, 204
STÖRTEBECKER, T. P., 1155
STOUT, A. P., *jl. su.*, 642
STRAUS, B., 436
STRAUSS, M. J., 653
STURGES, S. H., 1150
SUNZEFF, V., *jl. su.*, 220
Surgery, 206. *See also specific names of operations*
 abdominoperitoneal, in carcinoma, of rectum, survival factors in, 1146
 in cancer, of antrum, maxillary, 216
 of breast, noncontusive, 207
 of colon, rectosigmoid anastomosis, technique of, 208
 of thyroid, 219
 in carcinoma, inflammatory, of breast, 642
 of rectum, conservative, 431
 and rectosigmoid, anterior resection in, 645
 of dermatofibrosarcoma protuberans' 1154

- Surgery, cont'd
 in hemangioblastoma, cystic, of cerebellum, 437
 of melanoma, malignant, of ear, external, 653
 of pinealoma, 437
 radical, in cancer, advanced, of rectum, 1145
 pelvic, in cancer, of bladder, 650
 urologic aspects of, 647
 of sarcoma, of pleura, 1157
 of uterus, 212
 of stomach, total gastrectomy in, 430
 colon segment as gastric reservoir after, 1145
 technique of, 208
 in testis teratoma, 436
 in tumors, mixed, of parotid, 429
- SWEENEY, D. B., *jt. au.*, 652
- SYLVEIN, B., 653
- Synctytioma, 432
- Synovioma, 1153
 giant-cell, benign, 1153
 malignant, 652
- TABAH, E., *jt. au.*, 1153
- TALBOT, T. R., *jt. au.*, 210
- Tannic acid, enema, in roentgenography, of colon, 644
 tumors of liver, of rats, induced by, 1158
- TAYLOR, A. B., 1157
- TAYLOR, G. W., 206
- TAYLOR, S. G., III, 426
- TEMPLETON, J. Y., III, *jt. au.*, 1145
- Tendon sheath, tumors, giant-cell, originating from, 1152
- TENNER, R. J., *jt. au.*, 645
- Teratoma, sacrococcygeal, in the young, 1152
 of testis, 435
- Testis, glycogen cytochemistry, in cancer, of cervix, 211
 Huggins, 204
 iodacetate index, 204
 sedimentation index, 204
- Testis, 435, 651
 adenocarcinoma of, 435
 cells of, lipids of, 436
 chorioepithelioma of, 651
 seminoma of, 651
 teratoma of, 435
 tumors of, malignant, 651
- Testosterone, in cancer, of genital tract, female, 1149
 of prostate, 213
 in carcinoma of breast, advanced, 207
- THACKRAY, A. C., *jt. au.*, 205
- Thecoma, of ovary, carcinoma of endometrium and, 1150
- THOMPSON, A. S., 429
- THOMPSON, G. J., *jt. au.*, 1149
- THOMPSON, G. J., *jt. au.*, 435
- THOMPSON, H. L., 208
- THOMSON, R. S., *jt. au.*, 649
- Thoracotomy, pulmonary hemodynamics during, 439
- Thrax, 641
- Thorotrast, lung cancer and, 216
- Thymoma(s), pathology of, 432
- Thymus, tumors of, pathology of, 432
- Thyroid, 210, 647
 adenoma of, acetylaminofluorene and I^{131} inducing, 426
 I^{131} inducing, 426
 methythiouracil and I^{131} inducing, 426
 cancer of, 647
 coproporphyrin excretion in, radiation effect on, 210
 I^{131} in, 432
 management of, 210
 metastatic, radioactive iodine in, 210
 prognosis in, 210
- Carcinoma of, anaplastic, prognosis in, 210
 I^{131} for, dosage for, 427
 neck dissection in, indications for, 647
 papillary, with metastases, cervical, 1148
 prognosis in, 210
 I^{131} uptake by, 432
 in leukemia, 206
 sarcoma of, prognosis in, 210
- Thyroid-stimulating hormone, in I^{131} uptake, by metastases of thyroid cancer, 210
- Thyrotomy, bilateral, in carcinoma, of larynx, 1156
- TILLOTSON, J. F., 1153
- Tissue, genital, female, β -glucuronidase of, 1148
- Tissue culture, of carcinoma, transitional-cell, of ureter, 435
 in Hodgkin's disease, 217
 methods, book review, 217
 of testis, guanazole effect on, 436
 triethylenemelamine effect on, 426
- Tobacco, As content of, cancer and, 638
 cancer of lung and, 1042
 carcinoma of lung and, 438
 smoking, As content of, cancer and, 638
 smoking, cancer and, 203
 carcinoma of lung and, 438
- TOBIN, S. M., *jt. au.*, 434
- TOD, M., *jt. au.*, 1143
- Trachea, tumors of, 654
- Transplantation, heterologous, of melanoma, 656
 of papilloma, of bladder, 649
 intraocular, of carcinoma, of frog, roentgen-ray effects on, 1158
- Treatment, 204, 424, 639, 1143. See also specific modes of treatment, specific sites, specific tumors of cancer, errors in, 1042
- Triazine(s), effect of, in Ak-4 leukemia, 657
 2,4,6-triethylenimino-1,3,5-, effect of, on chromosomes, 440
- s-Triazine, 2,4-diethylenimino-6-amino-, effect of, on Ak-4 leukemia, 657
- s-Triazine, 2,4,6-triethylenimino-, effect of, on Ak-4 leukemia, 657
- Triethylenemelamine, in Hodgkin's disease, 1143
 in lymphosarcoma, 426, 1143
 in mycosis fungoidea, 426, 1143
 in tissue culture, 426
- 2,4,6-Triethylenimino-s-triazine. See also Triethylenimelamine
 effect of, on Ak-4 leukemia, 657
 on chromosomes, 440
- Trimethylolmelamine, effect of, on chromosomes, 440
- TRUNNELL, J. B., 432
- Tumor(s). See also specific names of
 of adrenal, 647
 alveolar cell, of lung, 438, 654
 of blood vessels, malignant, 428
 of bone, diagnosis of, Ga⁷⁵ in, 1144
 of brain, diiodofluorescein-I¹³¹ in diagnosis of, 1154
 HN2 intra-arterially for, 425
 ocular findings in, 1155
 ultrasonic in diagnosis of, 1154
- Brenner, of ovary, 212
 of eye, book review, 1155
 feminizing, of ovary, carcinoma of endometrium and, 1150
 formation of, book review, 423
 giant-cell, of tendon sheath origin, 1152
 glomus, aorticopulmonary, 429
 granulosa-cell, of ovary, 648
 carcinoma of endometrium and, 1150
 of head and neck, HN2 intra-arterially for, 425
 and hormones, steroid, book review, 658
 intracranial, ocular findings in, 1155
 intramedullary, of spinal cord, 1155
 of liver, of rats, after *Senecio jacobaea* alkaloids, 1157
 tannic acid inducing, 1158
 of lung, in mice, mustards inducing, 1157
 malignant, of mice, induced by vinyl-cyclohexene dioxide, 440
 of nasopharynx, 1156
 radiotherapy of, book review, 1143
 of testis, 651
 mixed, of parotid, subtotal parotectomy in, 429
 mouse, cellulair, desiccation and freezing in, 657, 658
 inhibitors for, 1157
 N sources of, 220
 of nervous system, central, diiodofluorescein-I¹³¹ in diagnosis of, 1154
 neurogenic, intrathoracic, primary, 437
 of pineal body, treatment of, 437
 of skin, of mice, induced by carcinogens, growth potentialities of, 440
- Synovial, 1153
 of thymus, pathology of, 432
- of trachea, 654
- Tumor(s), cont'd
 villous, of rectum, 431
 of stomach, 1145
- Wartthin's of parotid, histogenesis of, 429
- Wilms' of rat, 219
- Zn⁶⁵ uptake by, 206
- Ultrasonic pulses, in diagnosis, of tumors, of brain, 1154
 effect on blood cells of, 217
- Ureter, 1151
 carcinoma of, transitional cell, tissue culture of, 435
 metaplasia of epithelium of, adenocarcinoma and, 1151
- Ureterostomy, in surgery, radical pelvic, 647
- Urethane, effect of, on Bence Jones proteinuria, 215
- myeloma, multiple, 215
- Urine, in leukemia, chemistry of, 214
- Urological tract, surgery of, radical, 647
- Uterus, 212, 433, 1150
 cancer of, testosterone for, 1149
 carcinoma of, and ovarian tumors, feminizing, 1150
 recurrence of, 433
- choriocarcinoma of, 433, 434
- chorioepithelioma of, diagnosis of, 433, 434
- hydatidiform mole of, diagnosis of, 433, 434
 sarcoma of, 212
- Vagina, cytology of, book review, 1148
- VALENTINE, W. N., 214
- Veins, jugular, excision of, in radical bilateral neck dissection, venous adaptation after, 427
- VEST, S. A., *jt. au.*, 651
- Vinylcyclohexene dioxide, effect of, on chromosomes, 440
- Vitamin B₁₂, procarcinogenic effect of, in rats on β -dimethylaminoazobenzene, 220
- WADSWORTH, J. A. C., 653
- WAISMAN, H. A., 652
- WALK, L., 1145
- WALKER, L. A., 207
- WALLACE, D. M., 212
- WALLERSTEIN, R. S., 1156
- WALPOLE, A. L., *jt. au.*, 440
- WALTON, R. J., *jt. au.*, 212
- WANGENSTEEN, O. H., *jt. au.*, 208
- WARREN, S., *jt. au.*, 204
- Wartthin's tumor. See Cystadenoma lymphomatous, papillary
- WASSERMAN, L. R., *jt. au.*, 215
- WATERHOUSE, J. A. H., *jt. au.*, 1157
- WATSON, W. L., *jt. au.*, 437
- WAUGH, J. M., *jt. au.*, 645, 1147
- WAYMAN, T. B., 651
- WEBB, M., *jt. au.*, 1157
- WEBER, L. F., *jt. au.*, 657
- WEINER, I., 1150
- WEINTRAUB, S., *jt. au.*, 426
- WERTHESEN, N. T., 428
- WHITMORE, W. P., JR., *jt. au.*, 650
- WILD, J. J., *jt. au.*, 1154
- WILKINS, R. D., *jt. au.*, 1151
- WILLIAMS, I. G., *jt. au.*, 1145
- WINSHURY-WHITE, H. P., 1151
- WINSHIP, T., *jt. au.*, 425, 429
- WOLTMAN, H. W., 1155
- WOOD, F. W., *jt. au.*, 213
- WOODHOUSE, D. L., *jt. au.*, 1157
- WOODRUFF, L. M., *jt. au.*, 213
- WOODYATT, P. B., *jt. au.*, 205
- WOOLLEY, G. W., 220
- WRIGHT, C. J. E., 1153
- WRIGHT, J. C., *jt. au.*, 426
- WRIGHT, L. T., 426
- WYATT, G. M., *jt. au.*, 644
- WYNDER, E. L., 203
- Y⁹⁰, in myeloma, multiple, 215
- YER, H. T., *jt. au.*, 424
- Yttrium, radioactive colloidal, lymph-node localization of, 207
- ZEIDMAN, I., 219
- ZIMMERMAN, A. A., *jt. au.*, 652
- ZIMMERMAN, H. A., *jt. au.*, 439
- Zn⁶⁵, tumor uptake of, 206